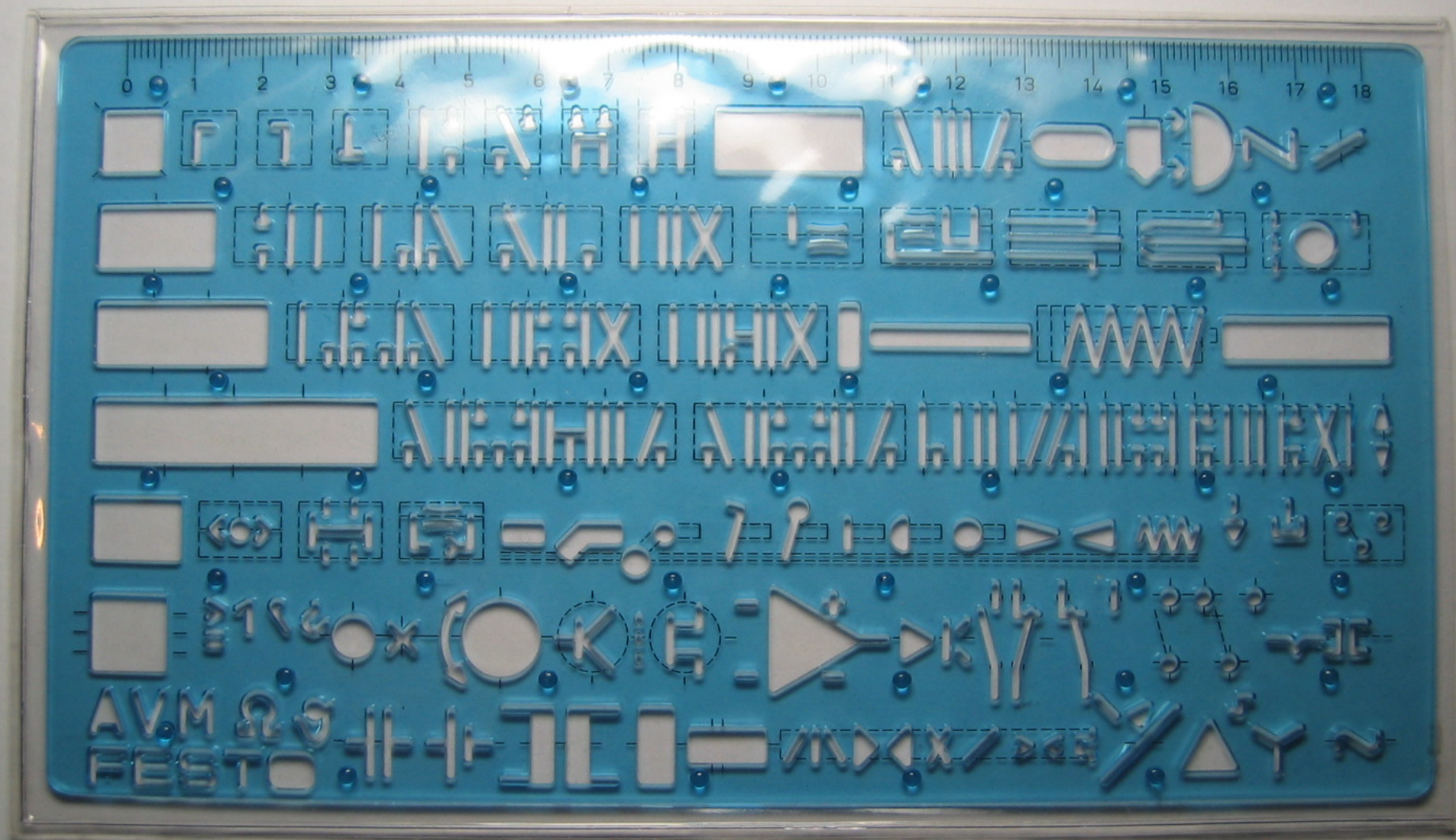


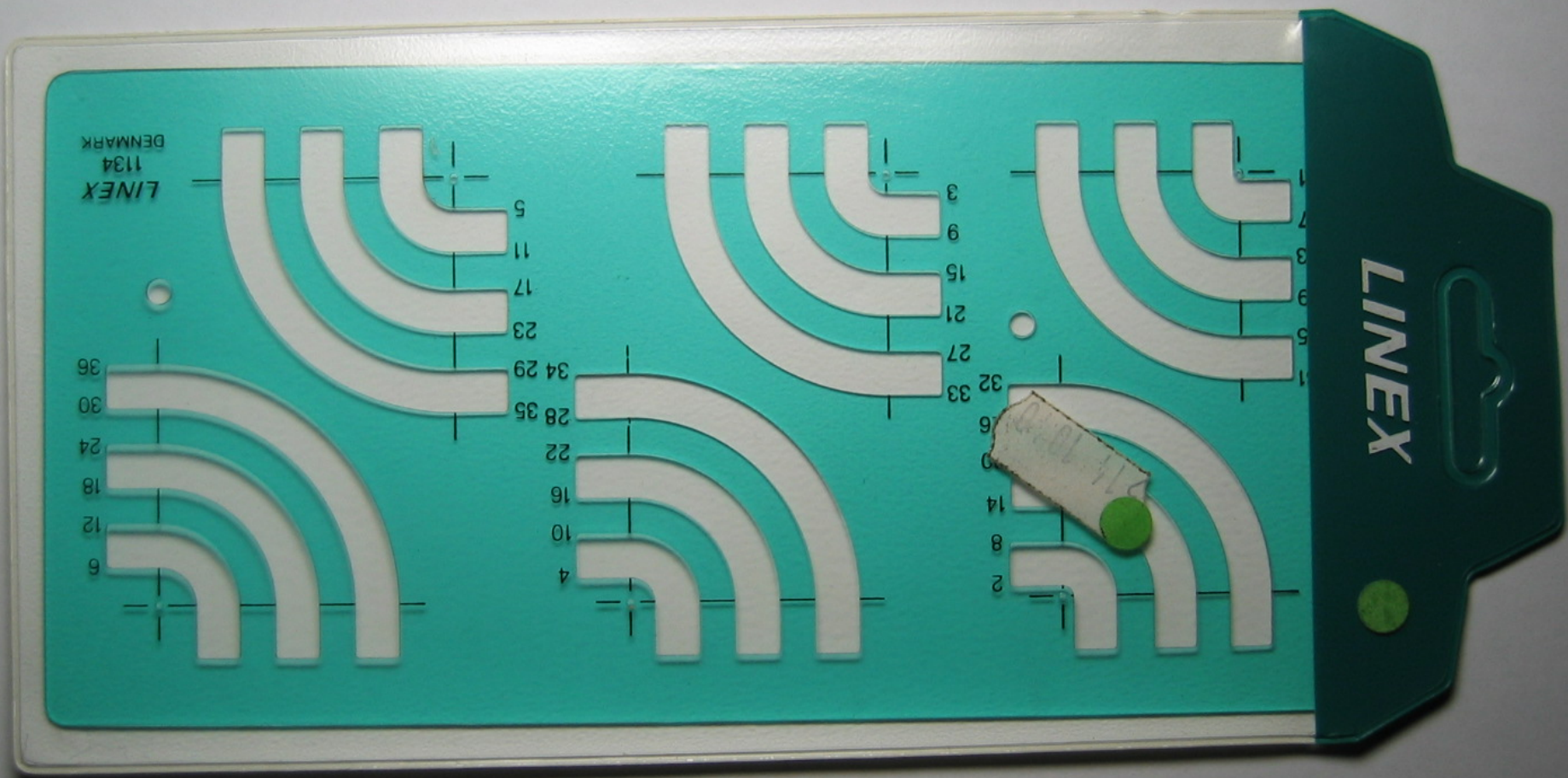
[illegible]

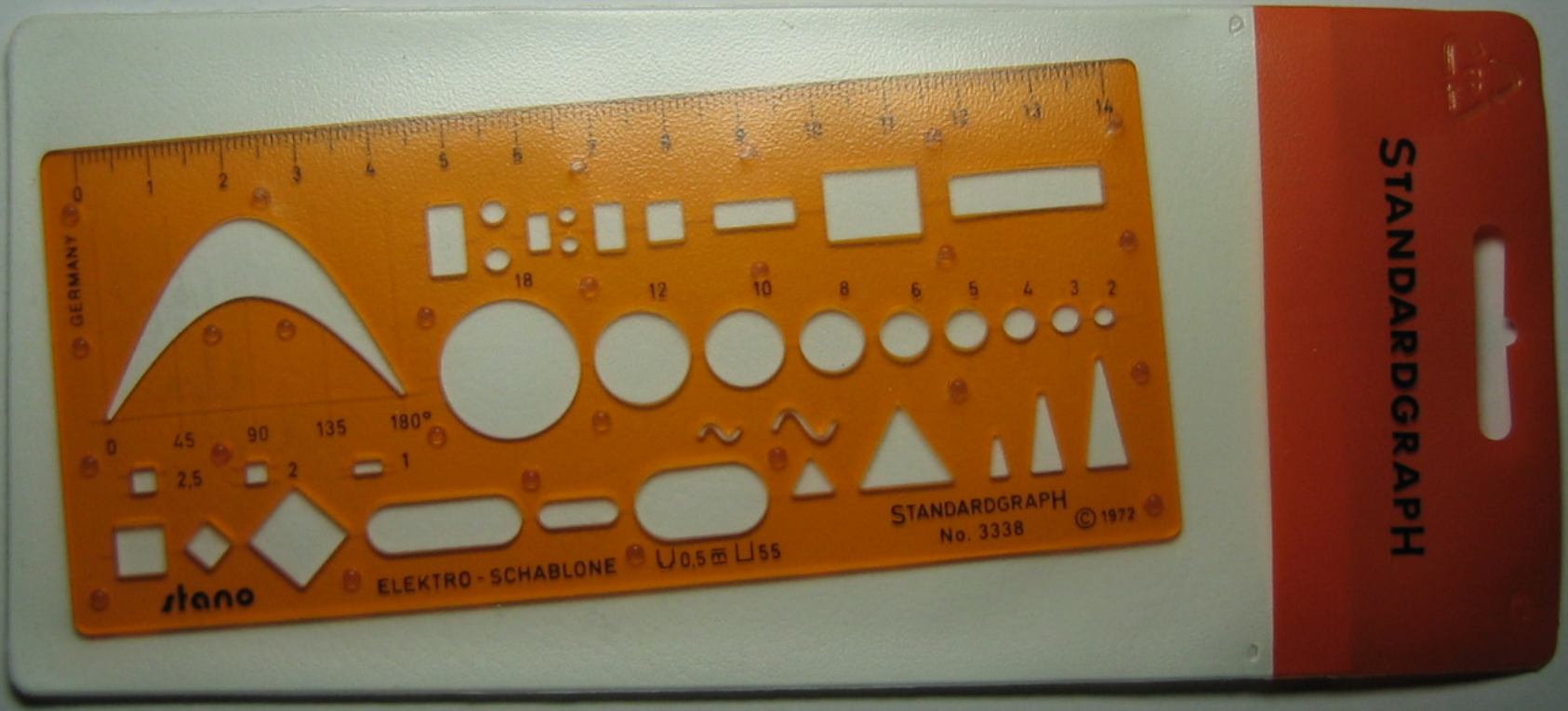
26

STANDARDGRAPH



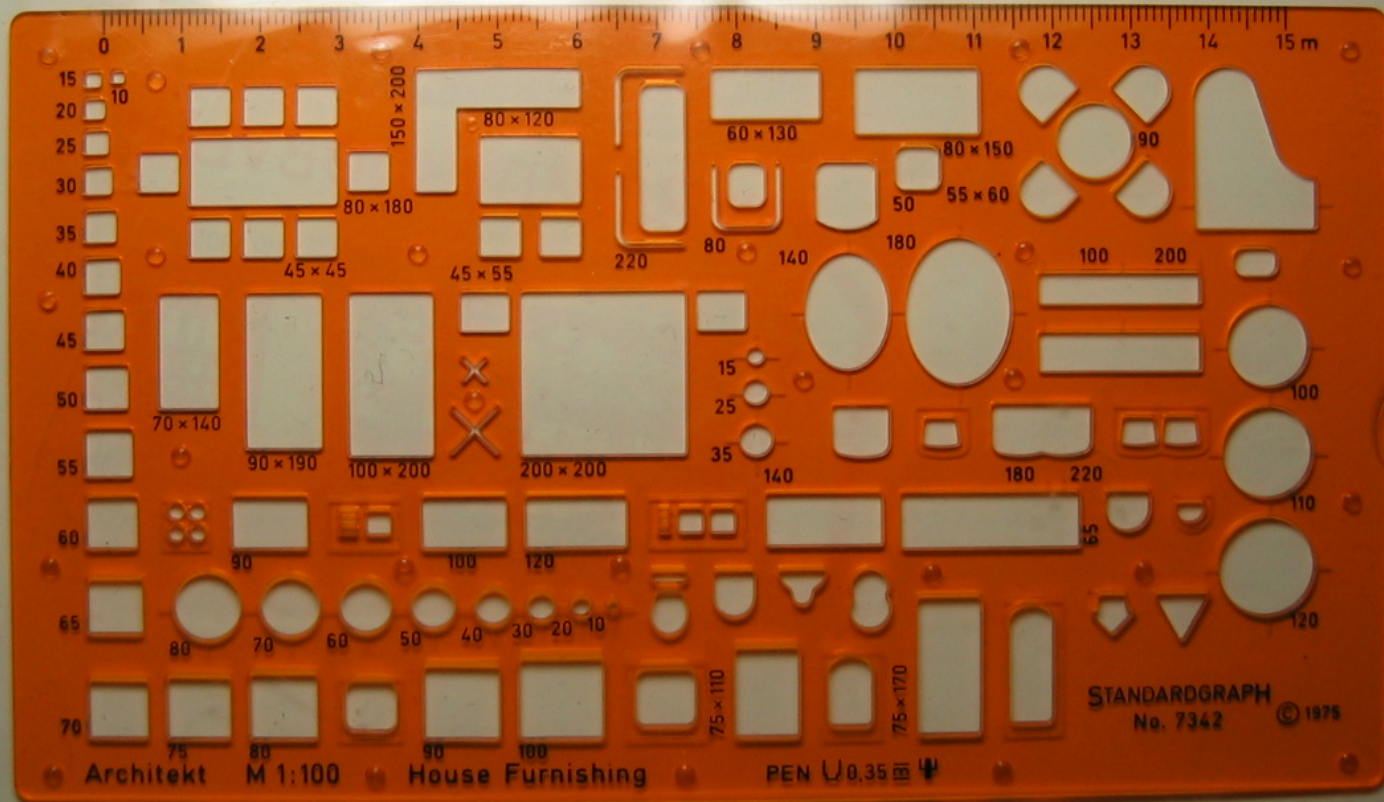


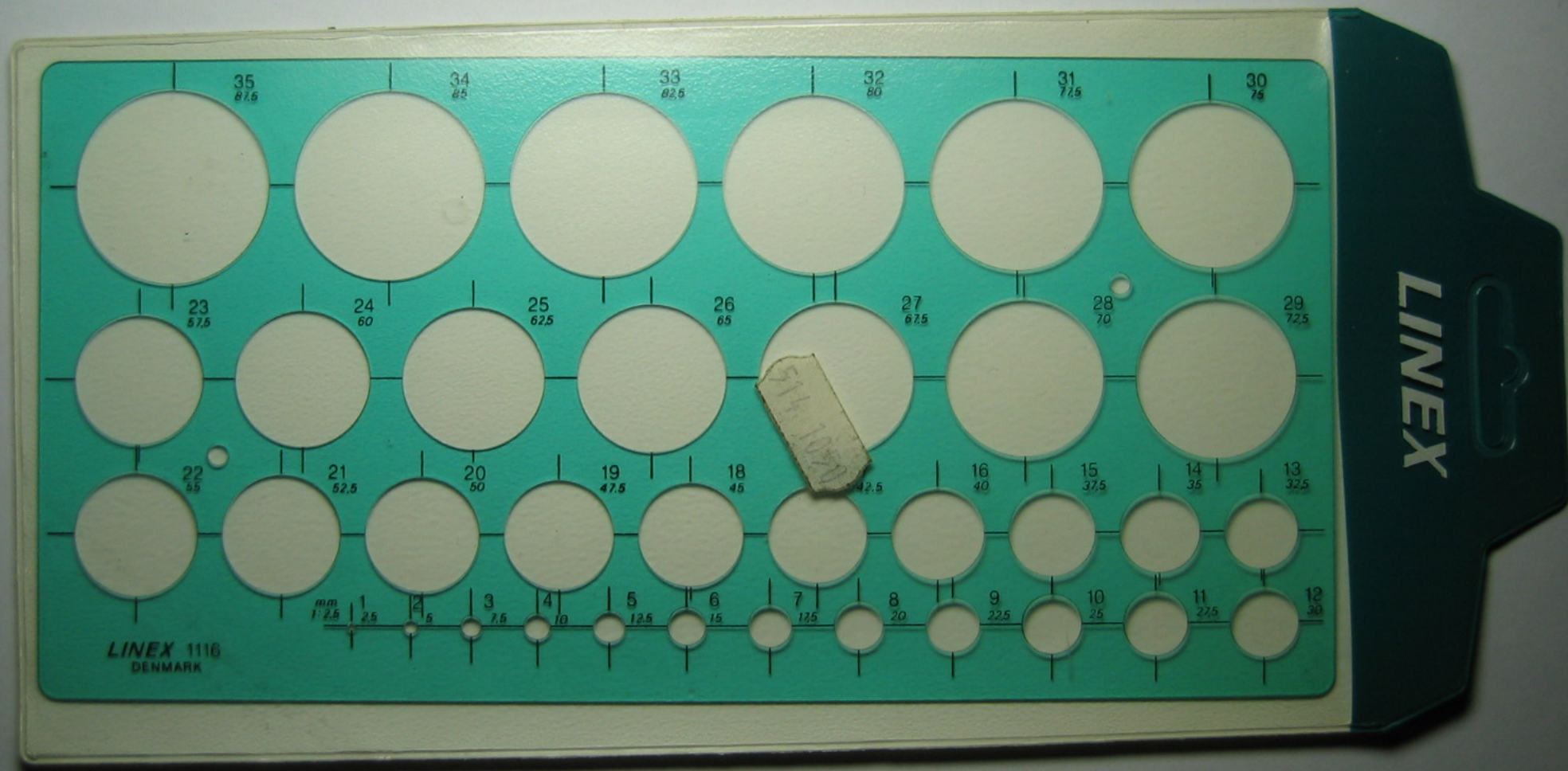


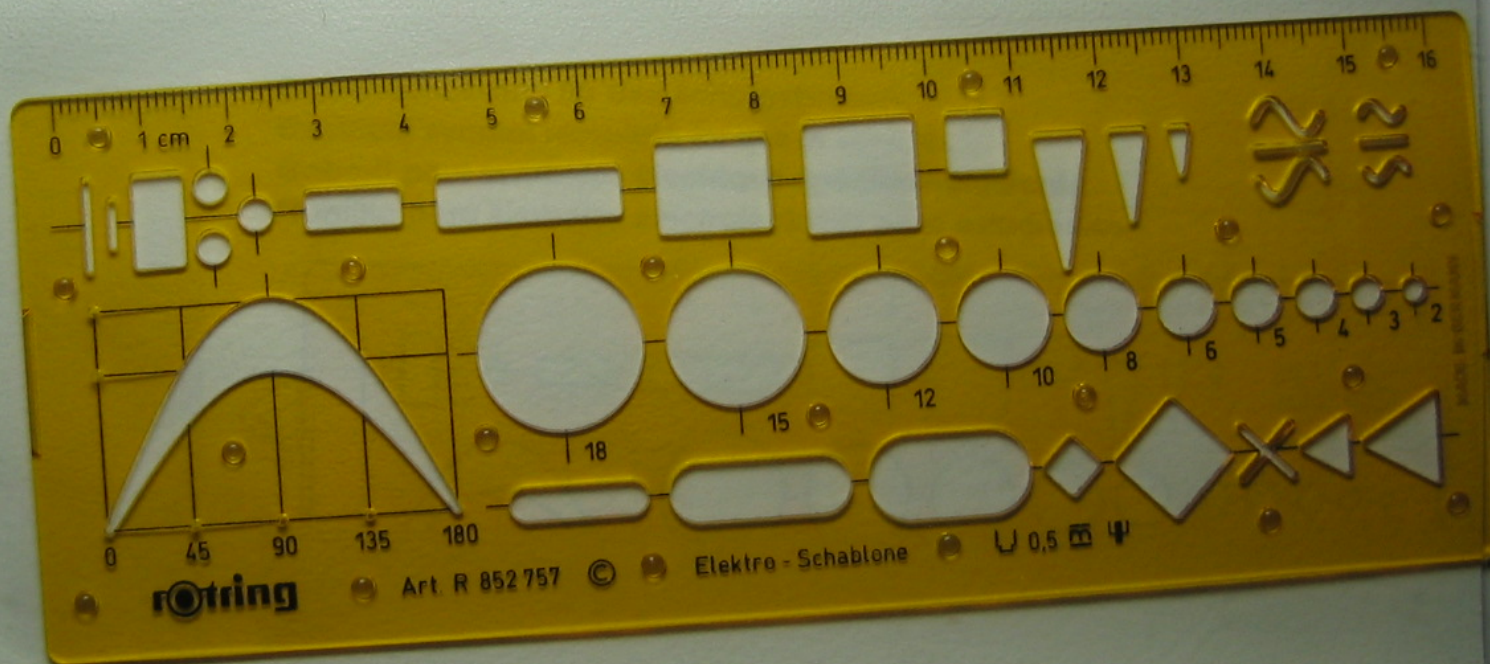


STANDARDGRAPH

STANDARDGRAPH

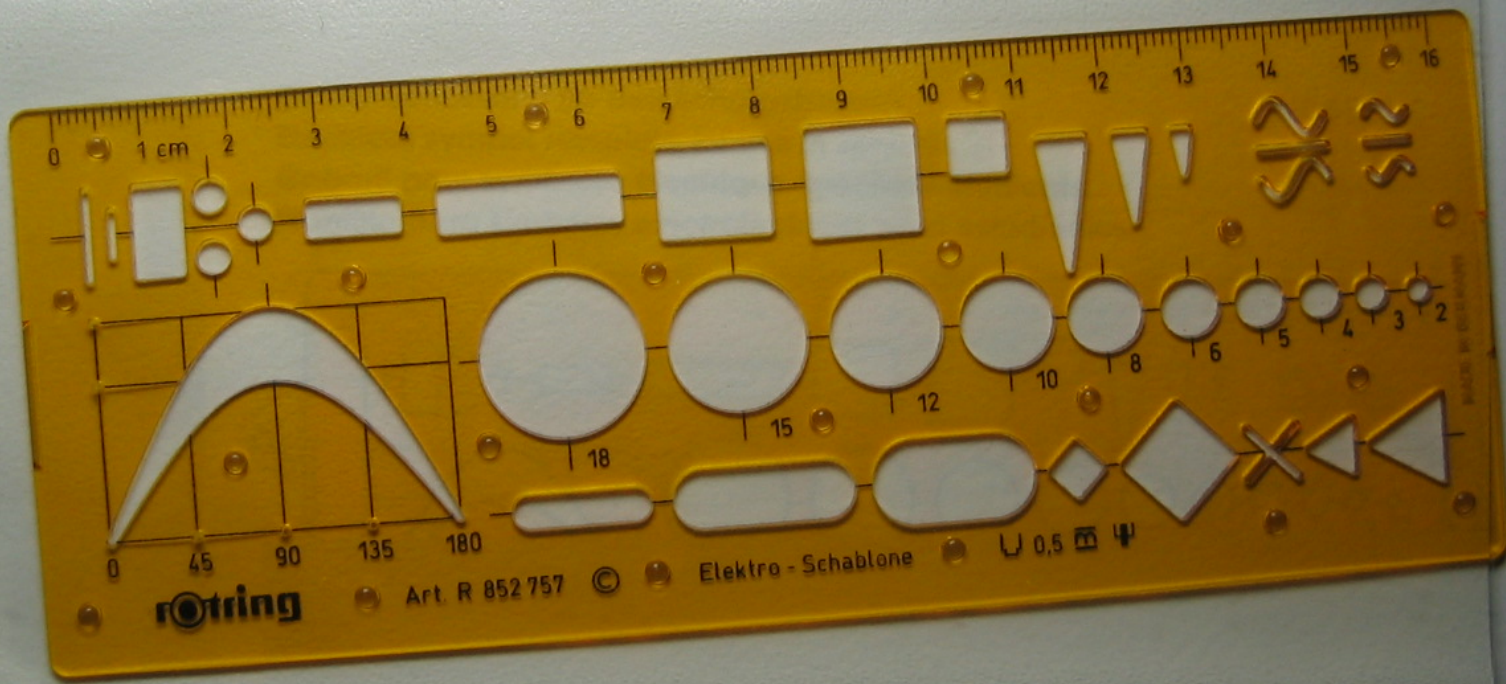








rotring

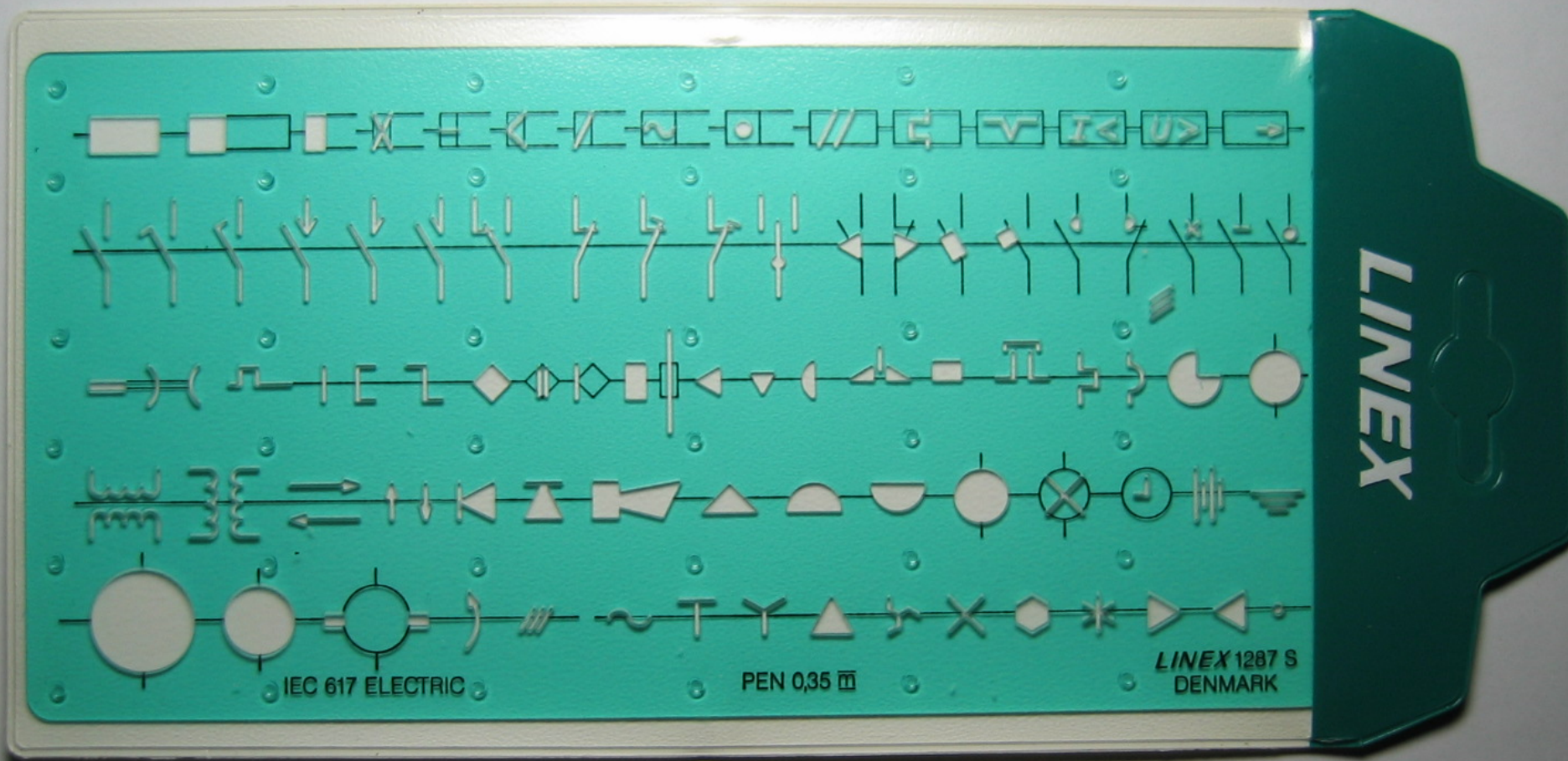


rotring

Art. R 852 757

Elektro - Schablone

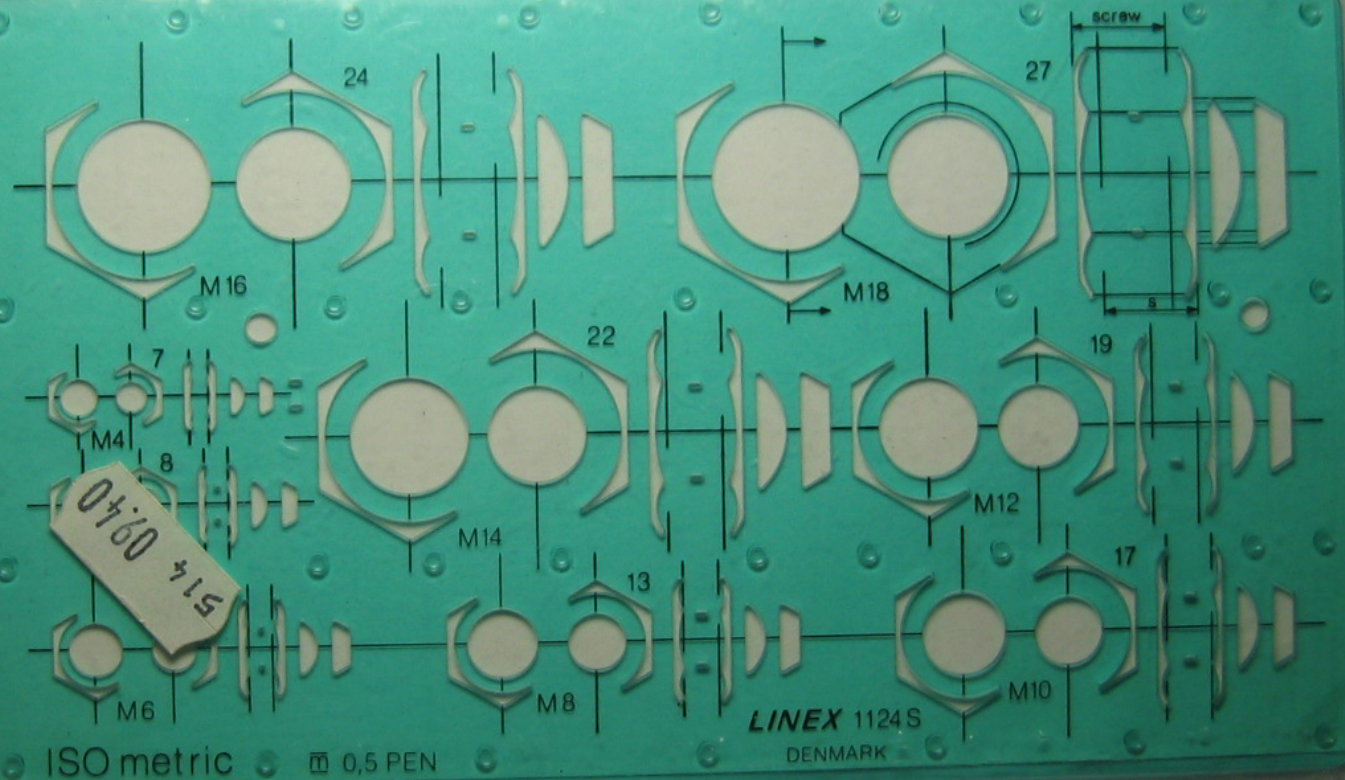
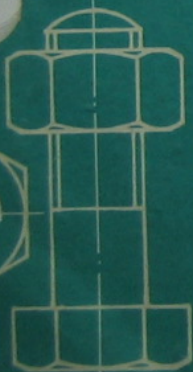
U 0,5 mm

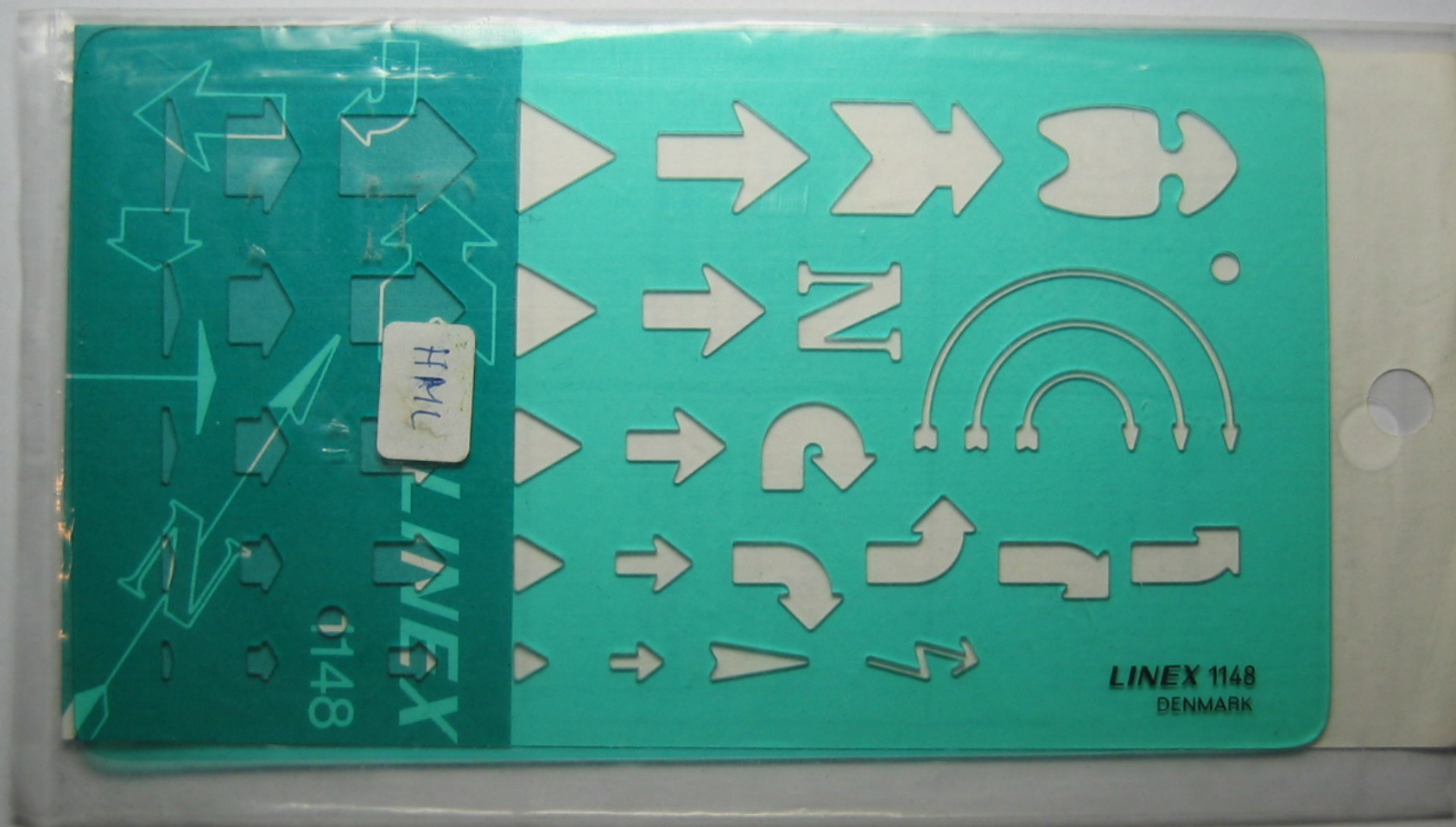


LINEX

1124S

ISO
metric





HML

0148

LINEX

LINEX 1148
DENMARK

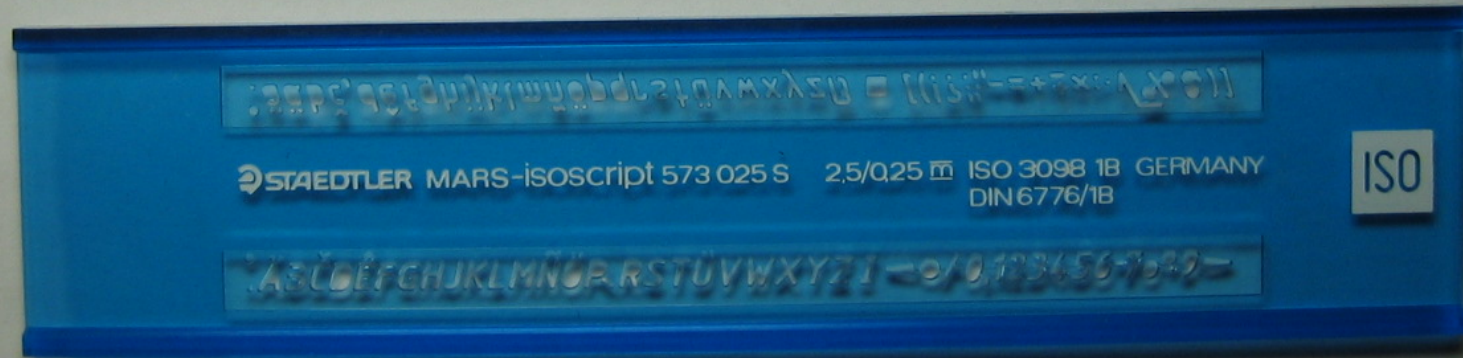














a b c d e f g h i j k l m n o p q r s t u v w x y z 0 1 2 3 4 5 6 7 8 9

STAEDTLER MARS-Isoscript 573 05 S 5,0/0,5 mm ISO 3098 1B GERMANY
DIN 6776/1B

ISO

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 0 1 2 3 4 5 6 7 8 9

! " # \$ % & ' () * + , - . / : ; < = > ? @ [\] ^ _ ` { | } ~ ¡ ¢ £ ¤ ¥ ¦ § ¨ © ª « ¬ ® ¯ ° ± ² ³ ´ µ ¶ · ¸ ¹ º » ¼ ½ ¾ ¿

STÄDTLER MARS-ISOscript 573 05 S 5,0/0,5 mm ISO 3098 1B GERMANY
DIN 6776/1B

Ä Ö Æ Ç È É Ê Ë Ì Í Î Ï Ñ Ò Ó Ô Õ Ö × Ø Ù Ú Û Ü Ý Þ ß à á â ã ä å æ ç è é ê ë ì í î ï ð ñ ò ó ô õ ö ÷ ø ù ú û ü ý þ ß

ISO



~&P& q&t&u&v&w&x&y&z& = [(i&j&k&l&m&n&o&p&q&r&s&t&u&v&w&x&y&z&)]

STAEDTLER MARS-ISOScript 573 05 S 5,0/0,5 mm ISO 3098 1B GERMANY
DIN 6776/1B

130

~Ä&ß&D&E&F&G&H&I&J&K&L&M&N&O&P&Q&R&S&T&U&V&W&X&Y&Z&I&=0&1&2&3&4&5&6&7&8&9~



rotring
ISO Schriftschablone
Lettering stencil
Plantilla para rotular

self-profil

ABCDEFGHIJKLMNO P Q
a b c d e f g h i j k l m n o p q r
1234567890

ISO 3098/1 DIN 6776
ISO Bv 2,5 mm
m 4 0,25 mm
Art. 342 025
Vertikal



Art. 342 050
rot ring

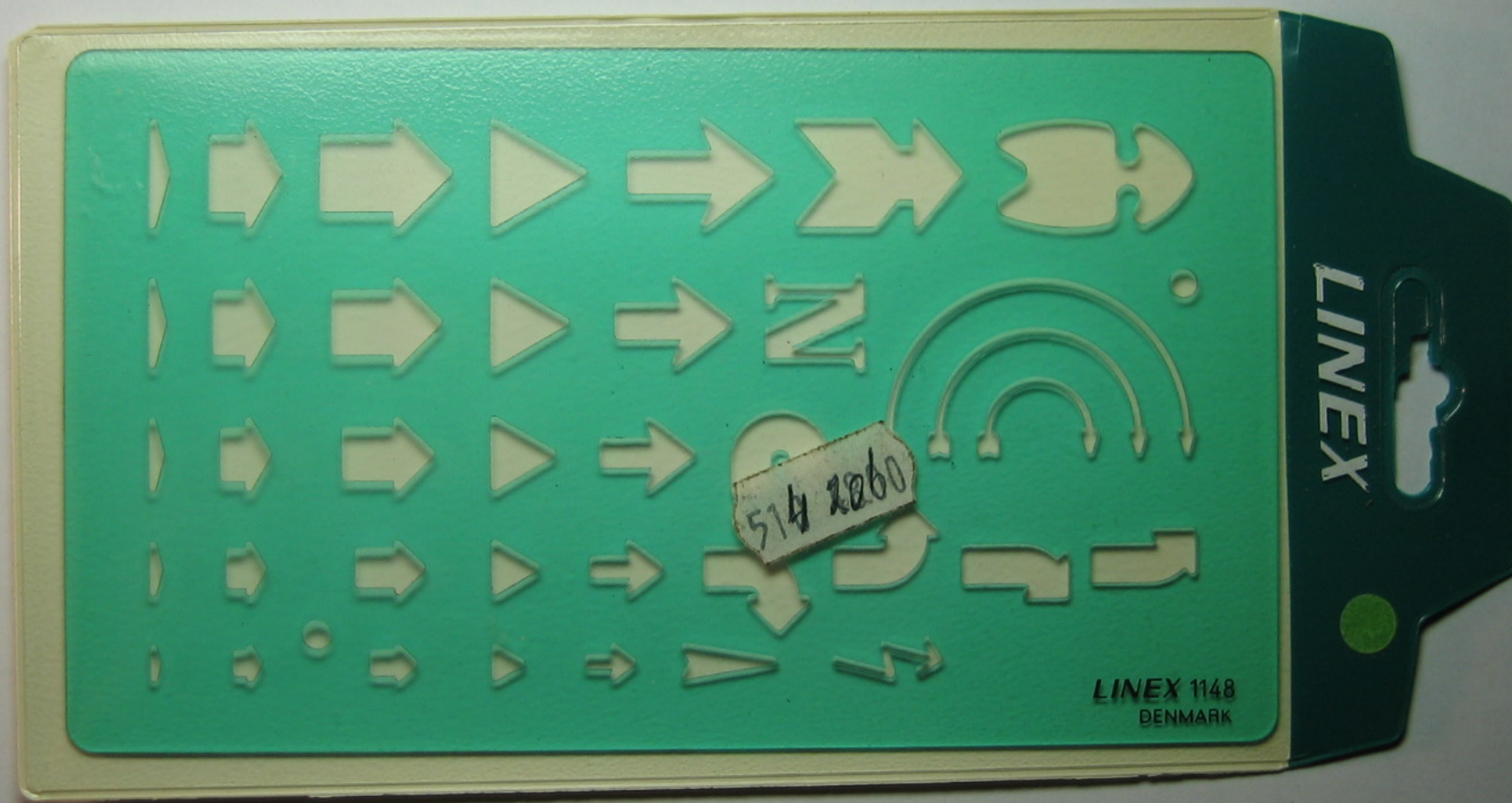
A B C D E F G H I J K L M N O P Q R S T U V
W X Y Z 1 2 3 4 5 6 7 8 9 0

rot ring
ISO
Schriftschablone
Lettering stencil
Plantilla para rotular

self-profile

A B C D E F G H J K
a b c d e f g h i j k
1 2 3 4 5 6 7 8 9 0

ISO 3098/1 DIN 6776
ISO Bv 5.0 mm
m 4 0.5 mm
Art. 342 050
Vertikal



LINEX

LINEX 1148
DENMARK



rotring





rotring







STANDARDGRAPH





STANDARDGRAPH





16





rotring

ISO

Schriftschablone
Lettering stencil
Trace-lettres
Plantilla para rotular

Leff profil

ABCDEF GHIJKL

abcdefghijklmnopqrstuvwxyz

1234567890

ISO 3098/I DIN 6776

ISO Bv 3,5 mm

m 0,35 mm

Art. 342 035

Vertikal



STAEDTLER

ISO
Schriftschablone
Lettering guide
Trace-lettres
Plantilla para rotular

2.5mm

4 025mm

ÄBCDÊFGHIJKL

äabc,d 12345

ISO 3098 1B

DIN 6776/1B

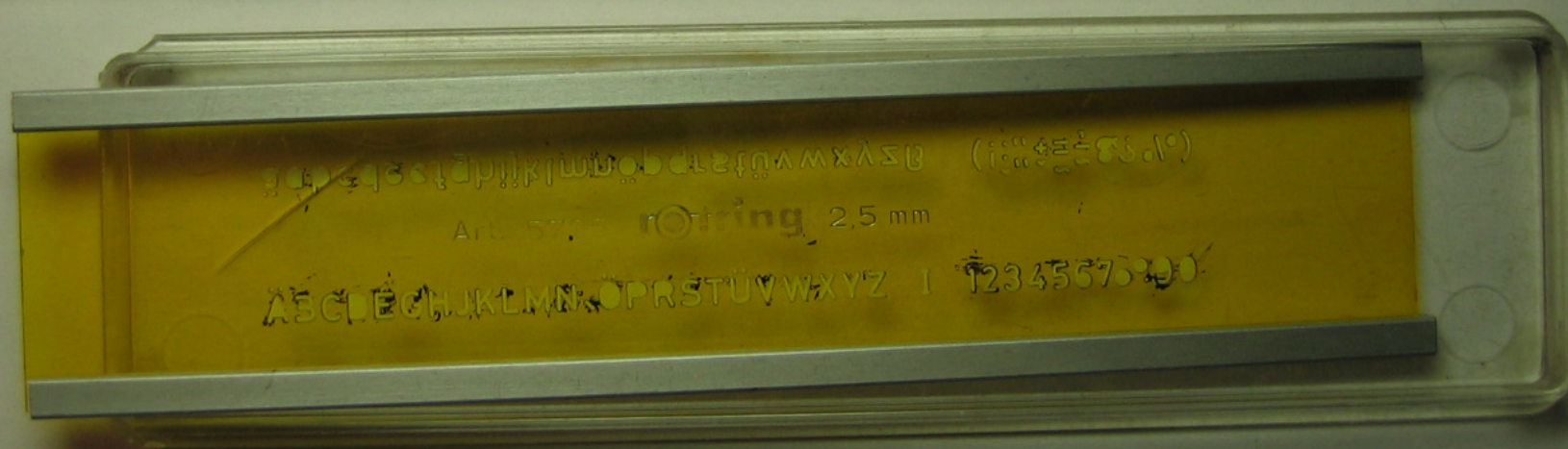
572 025S 2,5 mm

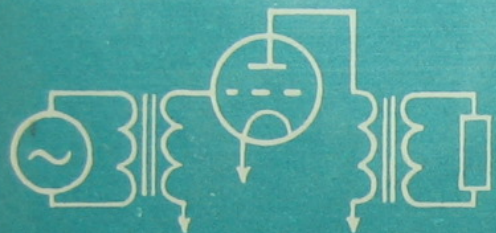


ISO 3098 1B GERMANY
DIN 6776/1B

ISO







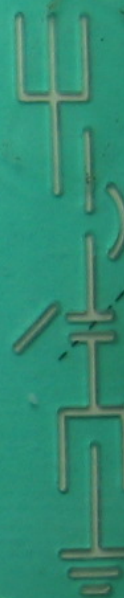
LINEX
1180



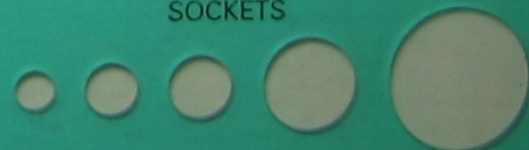
COIL



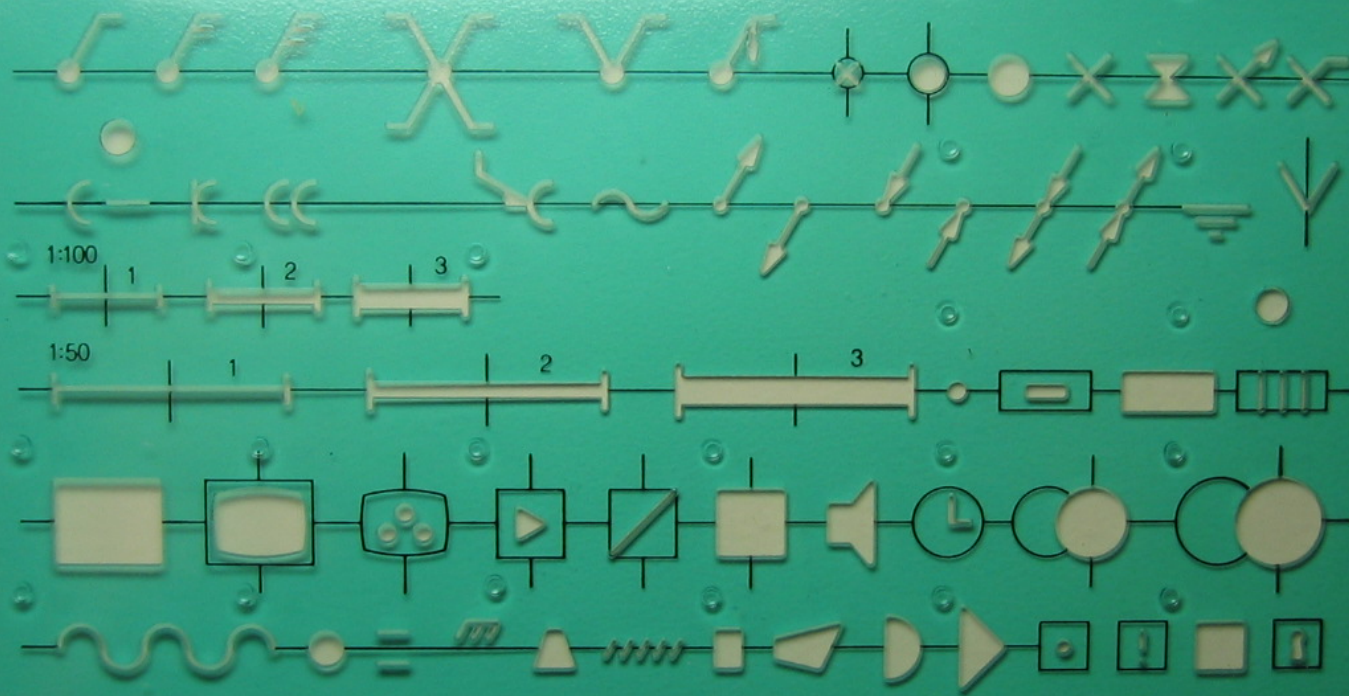
RESISTOR



SOCKETS



LINEX 1180
DENMARK

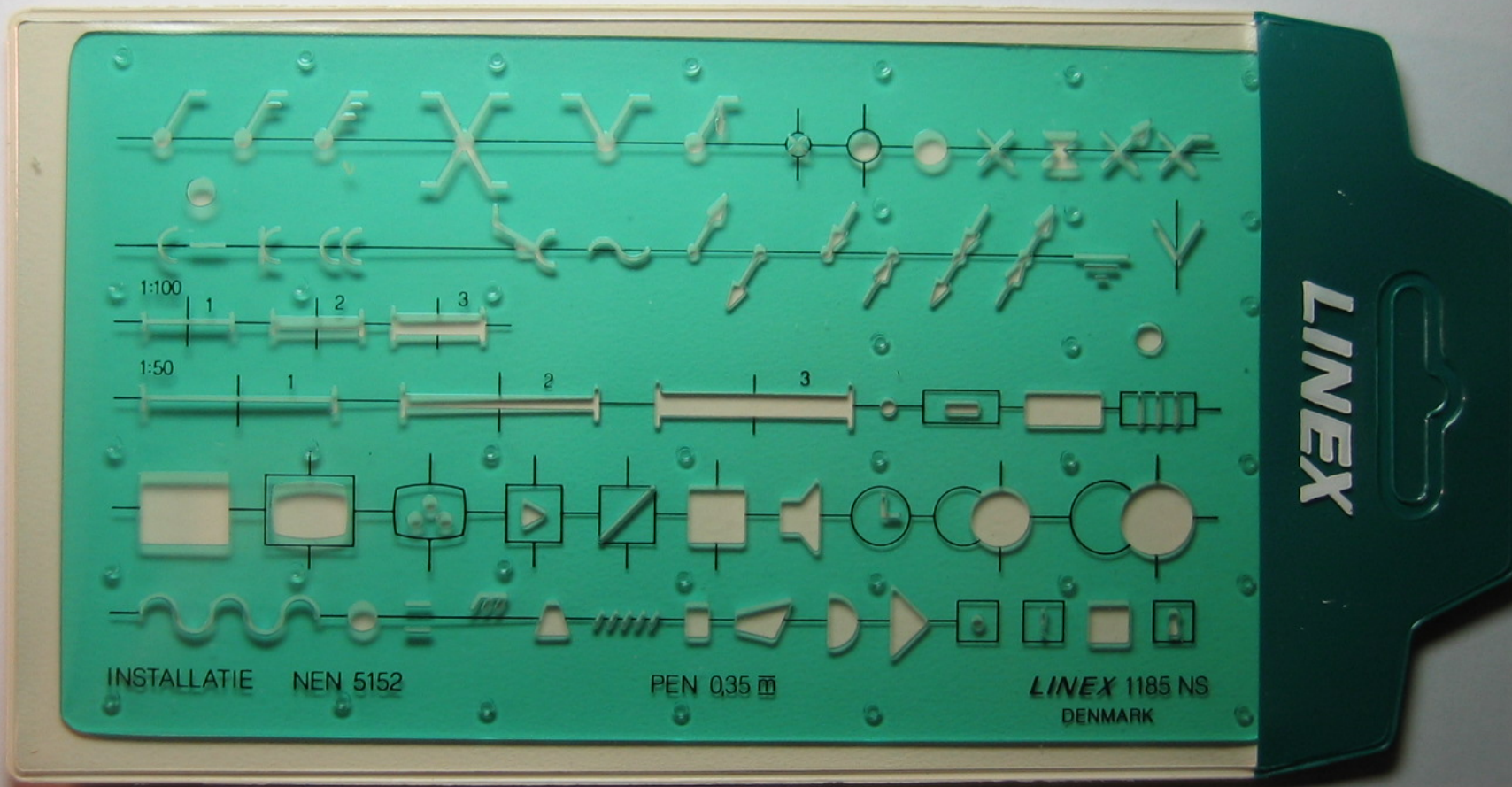


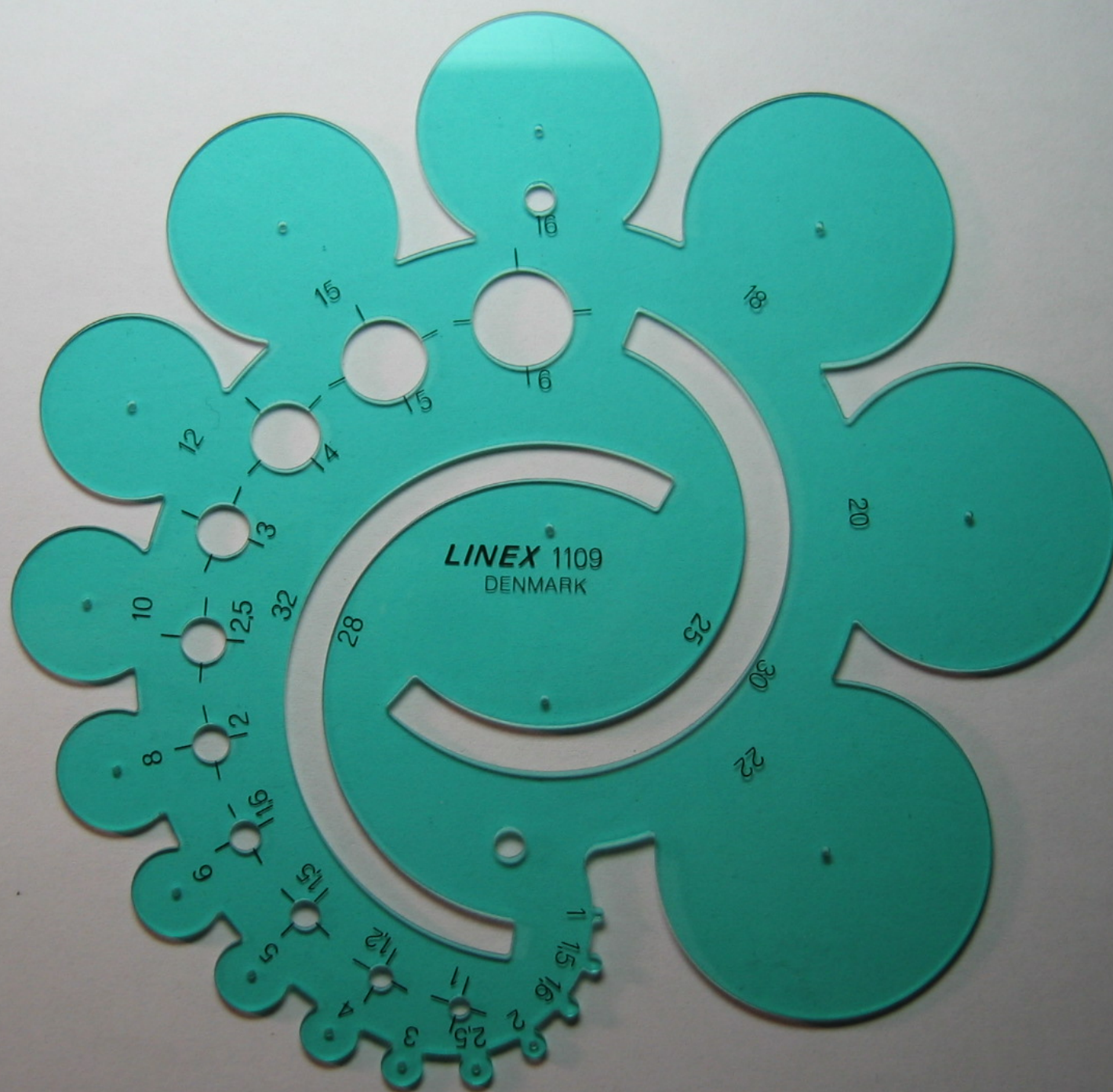
INSTALLATIE NEN 5152

PEN 035

LINEX 1185 NS
DENMARK

LINEX





**1112 T MØTRIK- og AFRUNDINGS-
SKABELON MED TUSCHKANT**

for pen 0,5 mm $\overline{\text{III}}$
Giver en stor tidsmæssig besparelse ved tegning af metriske møtriker og bolte, set fra kant og flade. Størrelser fra M6 til M24. Skabelonen indeholder også cirkelbuer med radier fra 1 til 25 mm og sekskanter med nøglevidde fra 3 til 22 mm.

**1112 T NUT AND BOW TEMPLATE
WITH TRACING EDGE**

for pen 0.5 mm $\overline{\text{III}}$
Real time-saving remedy for drawing of metric nuts and bolts, seen from edge and surface. Sizes from M6 to M24. The template also contains circle bows with radii from 1 to 25 mm and hexagons from 3 to 22 mm across flats.

**1112 T TRACE-ECROUS ET
CIRCONFÉRENCES AVEC FEUILLE
ANTI-TACHE**

pour le stylo à encre 0.5 mm $\overline{\text{III}}$
Permet de gagner du temps pour dessiner écrous et boulons métriques, vus en plan et en élévation. Dimensions de M6 à M24. Le gabarit contient également des arcs de cercles avec rayons de 1 à 25 mm et des hexagones de 3 à 22 mm.

**1112 T MOERSCHABLONN
MET FACETTE**

voor 0,5 mm $\overline{\text{III}}$
Voor het tekenen van moeren en bouten M 6 tot M 24 in horizontale en vertikale projectie

**1112 T PLANTILLA DE ARCOS Y TUERCAS
CON BORDE PARA TRAZAR
CON TINTA CHINA**

para plumas de 0.5 mm $\overline{\text{III}}$
Solución para economizar tiempo en el dibujo de tuercas y pernos métricos, vistos de planta y de perfil. Tamaños M6 a M24. La plantilla contiene también arcos de círculo con radios de 1 a 25 mm y hexágonos de 3 a 22 mm de cara a cara.

1112 T MUTTERMALL MED TUSCHKANT
för tuschpenna 0,5 mm $\overline{\text{III}}$
för ritning av sextantskruvor och muttrar med ISO metrisk gängning från M 6–M 24
SMS 1755, 2165.

**1112 T MUTTERN- und ABRUNDUNGS-
SCHABLONE MIT TUSCHE KANTE**

für Tuschebiller 0,5 mm $\overline{\text{III}}$
Ergeben eine grosse Zeitersparnis beim Zeichnen von metrischen Muttern und Bolzen – der Kante und von der Fläche gesehen. Grossen von M6 bis M24. Die Schablone umfasst auch Kreise mit Radien von 1 bis 25 mm und Sechsecken mit Schlüsselweiten von 3 bis 22 mm.

**1112 T MUTTERI- ja PYÖRISTYSKAAVIO,
ISO METRINEN TUSSIRUNOILLA**

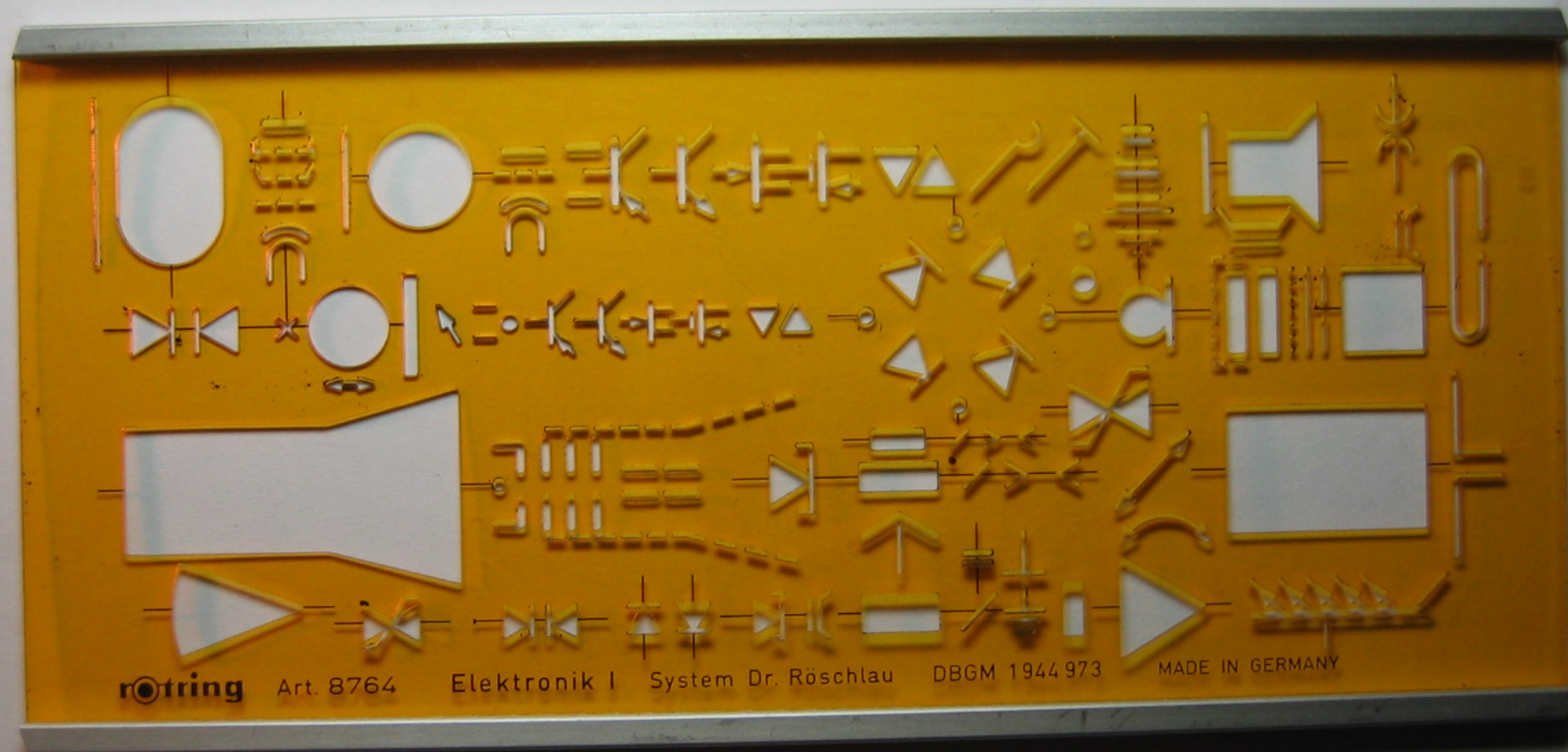
tussipöiririmelle 0,5 mm $\overline{\text{III}}$
ISO metristen muttereiden ja pulttien piirtämiseen reunalta ja pinnalta nähtynä. Koot M 6 – M 24. Sisältää lisäksi ympyräkaaria 1–25 mm ja kuusikulmioita aukolla 3–22 mm.

**1112 T トレーシングエッジ付き
ISO"メートルリックボルト・ナット
テンプレート**

ISO"メートルリックボルト・ナット
テンプレート $\overline{\text{III}}$
(R-25Rの円と円弧を含んでいます)

**1112 T شبلونة صواميل وبكس نظام
مترى ايزو**

تستخدم لرسم الصواميل والبكس وفق نظام مترى ترى من الالة والسطح. ا. احجام الصواميل (مترى) 6 مم الى 24 مم والشبلونة تحتوي ايضا على الدوائر والقرصات والخطوط المستقيمة لاسافة بين الشبلونات من 13 مم الى 25 مم ووحدة خاصة لاسية لاسافة بين الشبلونة 1112 استخدم مقياسك 0.5 مم $\overline{\text{III}}$



rotring

Art. 8764

Elektronik I

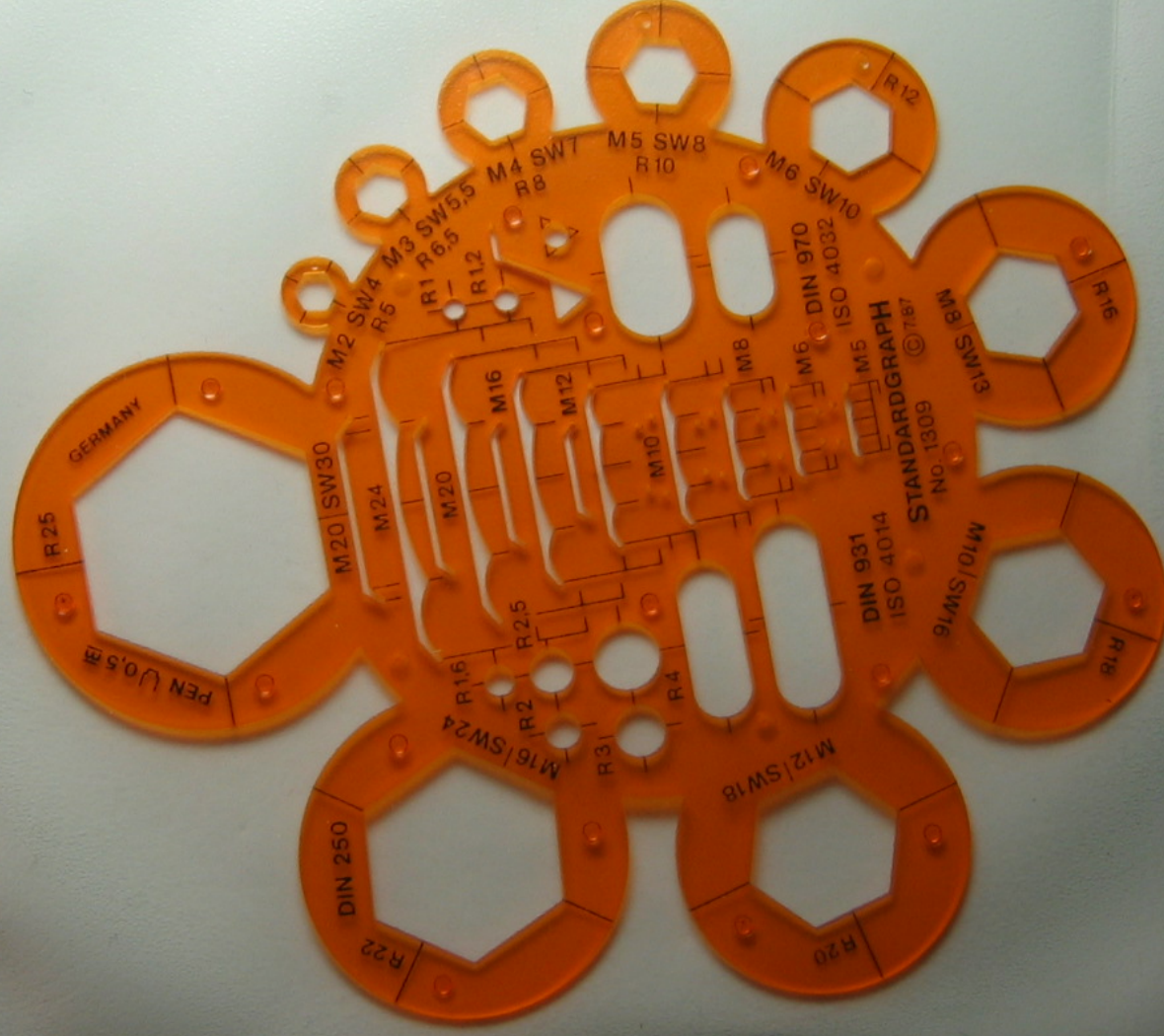
System Dr. Röschlau

DBGM 1944 973

MADE IN GERMANY



STANDARDGRAPH



MATERIAAL NORM

KUNSTSTOFFEN

hardw stf K 400
nylon K 722

NONFERRO

Al 40 hard T 136
Al leg hard T 633
aut Al hard T 094
get Al T 108
Cu (koper) R 132
lagergleet R 187
mess Ms 58 R 001
mess Ms 63 R 019

GIETIJZER

gietgje 00 N 389
mach gietgje N 666
lam gietijz N 099

NIET ROEST VUURV

aut Cr st N 219
aut CrNi st N 284
Cr ijz N 737
CrNi st niet roest N 129
CrNi st niet roest N 323
CrNi st vuurv N 544

GEREEDSCHAPST

gietmat-ijpenst N 920
snelt N 557
steempolst 0 N 775
steempolst 12 N 093
zilverst N 094

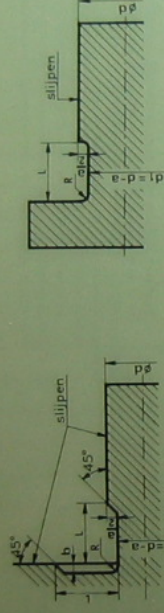
HARDBAAR ST

cem st N 095
CrNi cem st N 247
CrNi st vered N 089
hoemet N 147
kogell st N 088
mach st N 096
NiCr st spec N 092
nitr st N 579

NIET HARDBAAR ST

aut st h11 N 100
aut st N 313
aut mach st N 165
assenst N 142
magn ijz 100 ongel N 398

DRAAIEN



UITLOOPGROEVEN VOOR SLIJPWERK

Ød	a*)	b*)	L _{min}	R _{max}
<20	0,2	0,1	1	0,2
20-100	0,4	0,2	2	0,4
>100	1,0	0,5	3	1,0

*) bij de maten a en b is geen rekening gehouden met de slijp-toegift.

RICHTLIJN VOOR DE KEUZE VAN DE AANZET
IN mm/omw. VOOR LANGS- EN VLANDRAAIEN

Materiaal	neus- radius beitel mm	Ruwheid R_a in micro-inch				
		16	$\frac{32}{\sqrt{R_z}}$	63	$\frac{125}{\sqrt{R_z}}$	250
aut st N 100	0,4	Eenkel bereikbaar onder punt- te verspanningssomstandigheden	0,05*	0,05*	0,100	—
	0,8		0,05*	0,05*	0,125	0,32
	1,2		0,05*	0,05*	0,160	0,40
mach st N 096	0,4		0,05*	0,05*	0,125	—
	0,8		0,05*	0,05*	0,160	0,40
mess M4.58 R 001	0,4	0,05	0,05	0,200	0,32	
	0,8	0,05	0,05	0,250	0,40	
	1,2	0,05	0,05	0,320	0,50	
CrNi st N 092	0,4	0,05	0,05	0,08	0,160	—
	0,8	0,05	0,05	0,10	0,250	0,40
	1,2	0,05	0,05	0,125	0,250	0,50

* Schuren is meestal noodzakelijk om de gewenste ruwheid te verkrijgen.

* Schuren is meestal noodzakelijk om de gewenste ruwheid te verkrijgen.

BEITELMATERIALEN

SNELSTAAL

HARD-METAAL

TITAANCARBIDE

KERAMIEK

P = blauw

K = rood-bruin

SNIJSNELHEDEN in m/min

KENKLEUREN 12,5 16 20 25 32 40 50 63 80 100 125 160 200 250 320 400 500

ASSEN

TOOLERANTIE IN MICRONS VOOR DE KWALITEITEN

norm. maat in mm	4	5	6	7	8	9	10	11
boven	3	4	5	6	7	8	9	10
0	3	4	5	6	7	8	9	10
10	3	4	5	6	7	8	9	10
100	3	4	5	6	7	8	9	10
1000	3	4	5	6	7	8	9	10

GATEN

TOOLERANTIE IN MICRONS VOOR DE KWALITEITEN

norm. maat in mm	4	5	6	7	8	9	10	11
boven	3	4	5	6	7	8	9	10
0	3	4	5	6	7	8	9	10
10	3	4	5	6	7	8	9	10
100	3	4	5	6	7	8	9	10
1000	3	4	5	6	7	8	9	10

SNIJSNELHEDEN in m/min

Omwentelingen per minuut 2 2,5 3,2 4 5 6,3 8 10 12,5 16 20 25 32 40 50 63 80 100 125 160 200 250 320 400 500

MACHINEFABRIEKEN

TECHNISCHE VOORLICHTING

PHILIPS



RUIMEN

HERKENNING	BEWERKINGSVOLGORDE	DRIELIPPENBOREN
staal: brons: lichtmetaal: wit	aancenteren boren met spiraalboor	te ruimen 0-10 mm → 0,20 mm 10-18 mm → 0,25 mm 18-30 mm → 0,30 mm 30-50 mm → 0,40 mm
gietijzer: messing:	na boren met drielippenboor ruimen	

ROLLEN

De voorgedraaide boutsteel moet een afschuining hebben van minstens 25° ES. De afschuining mag niet samenvallen met de flanken van de draad.

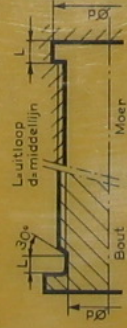
Rollnelheden
staal 30-70 m/min nonferro 60-90 m/min

Onbekende materiaalsoorten min 50 m/min
Steeds overvloedig koelen.

TAPPEN

MATERIAAL	HERKENNING	TOEPASSING
staal: brons:	schilaanwijding met vuilgroef	doorlopende gaten
gietijzer: messing:	rechtshellende spaanagroeven	blinde gaten
lichtmetaal: wit	rechte spaanagroeven	doorlopende en blinde gaten
	rechte spaanagroeven met schilaanwijding	doorlopende en blinde gaten

SCHROEFDRAADUITLOPEN



De middellijn van de draad moet 30° zijn. De middellijn van de draad moet 30° zijn. De middellijn van de draad moet 30° zijn.

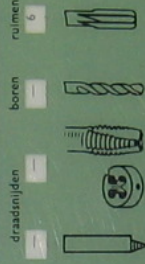
UITLOPEN L in mm	ISO-METRISCH MIDDELIJN WHITWORTH	GAS	METRISCH FIJN
2	2,1	-	-
2,5	2,4	-	-
3	3,1	3	2,5
4	4,1	4	3
5	5,1	5	3,5
6	6,1	6	3,5

ISO-METRISCHE EN FIJNE METRISCHE SCHROEFDRAAD

draad- aanduiding (M1,7)	speed	0,35	draadmiddellijn min	1,26	max	1,34	draadmiddellijn min	1,63	max	1,70	draadmiddellijn min	1,41	max	1,49	draadmiddellijn min	1,48	max	1,54
--------------------------------	-------	------	------------------------	------	-----	------	------------------------	------	-----	------	------------------------	------	-----	------	------------------------	------	-----	------

materiaal
magn. ijz. 100 ongel.

SNIJSNELHEDEN

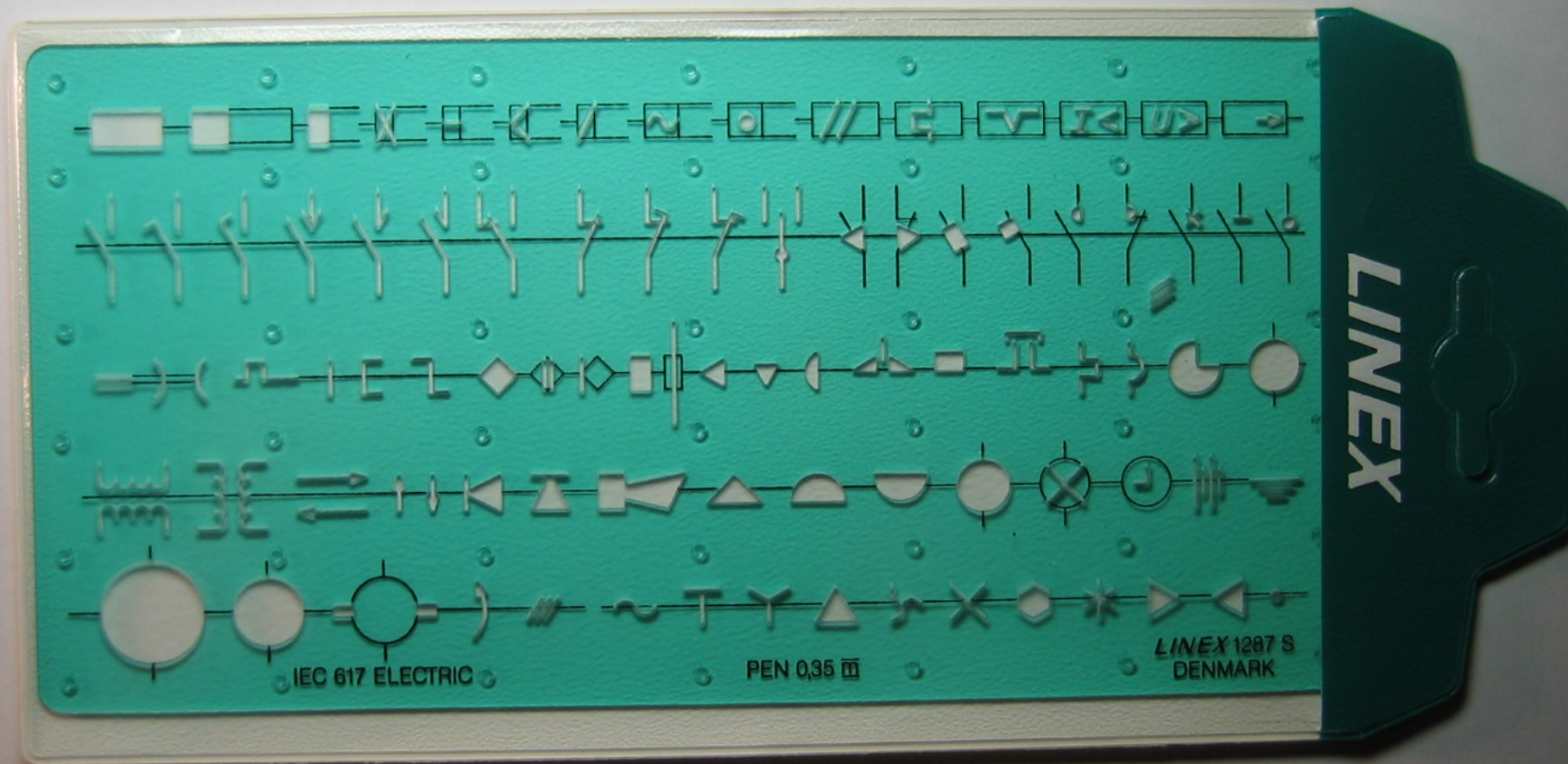


GASSCHROEFDRAAD

draad- aanduiding G1/4	speed	1,337	gaten per 1"	19	boormiddellijn min	11,45	max	11,89	draadmiddellijn min	12,91	max	13,15	draadmiddellijn min	12,18	max	12,60	draadmiddellijn min	12,43	max	12,42
------------------------------	-------	-------	-----------------	----	-----------------------	-------	-----	-------	------------------------	-------	-----	-------	------------------------	-------	-----	-------	------------------------	-------	-----	-------

WHITWORTH SCHROEFDRAAD

draad- aanduiding W1/4	speed	1,050	gaten per 1"	24	boormiddellijn min	9,43	max	9,73	draadmiddellijn min	10,57	max	10,74	draadmiddellijn min	9,80	max	10,05	draadmiddellijn min	9,69	max	9,68
------------------------------	-------	-------	-----------------	----	-----------------------	------	-----	------	------------------------	-------	-----	-------	------------------------	------	-----	-------	------------------------	------	-----	------



Die STANDARDGRAPH-Schieblöcher-Nr. 3330
 bietet mit ihren 12 verschiedenen sinusförmigen An-
 wendungsmöglichkeiten in der Mathematik und Elektro-
 technik:

1. Die graphische Darstellung von sinusförmigen Funktionen
2. Spannung, Strom und Leistung in Wechselstromschaltungen
3. Die graphische Lösung von mathematischen Aufgaben
4. Die graphische Darstellung von sinusförmigen Funktionen
5. Die graphische Darstellung von sinusförmigen Funktionen
6. Die graphische Darstellung von sinusförmigen Funktionen
7. Die graphische Darstellung von sinusförmigen Funktionen
8. Die graphische Darstellung von sinusförmigen Funktionen
9. Die graphische Darstellung von sinusförmigen Funktionen
10. Die graphische Darstellung von sinusförmigen Funktionen
11. Die graphische Darstellung von sinusförmigen Funktionen
12. Die graphische Darstellung von sinusförmigen Funktionen

The STANDARDGRAPH Curve Template No. 3330
 offers 12 different curves and can thus be used extensively
 both in mathematics and in electrical engineering:

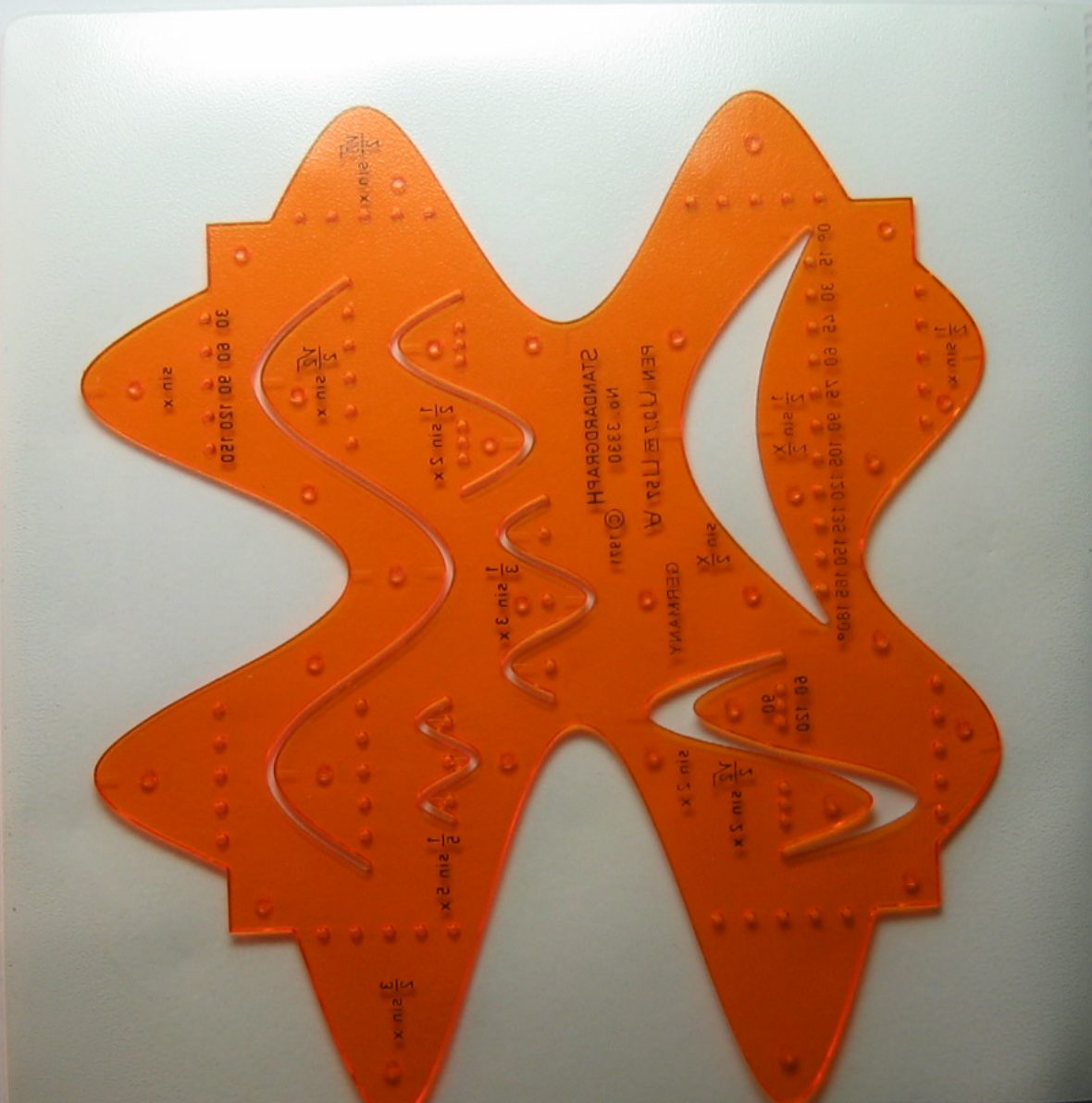
1. For the graphical representation and solution of mathematical problems of the theory of graphs.
2. For voltage, current, and power in AC circuits.
3. For the graphical solution of mathematical problems.
4. For the graphical representation of sinusoidal functions.
5. For the graphical representation of sinusoidal functions.
6. For the graphical representation of sinusoidal functions.
7. For the graphical representation of sinusoidal functions.
8. For the graphical representation of sinusoidal functions.
9. For the graphical representation of sinusoidal functions.
10. For the graphical representation of sinusoidal functions.
11. For the graphical representation of sinusoidal functions.
12. For the graphical representation of sinusoidal functions.

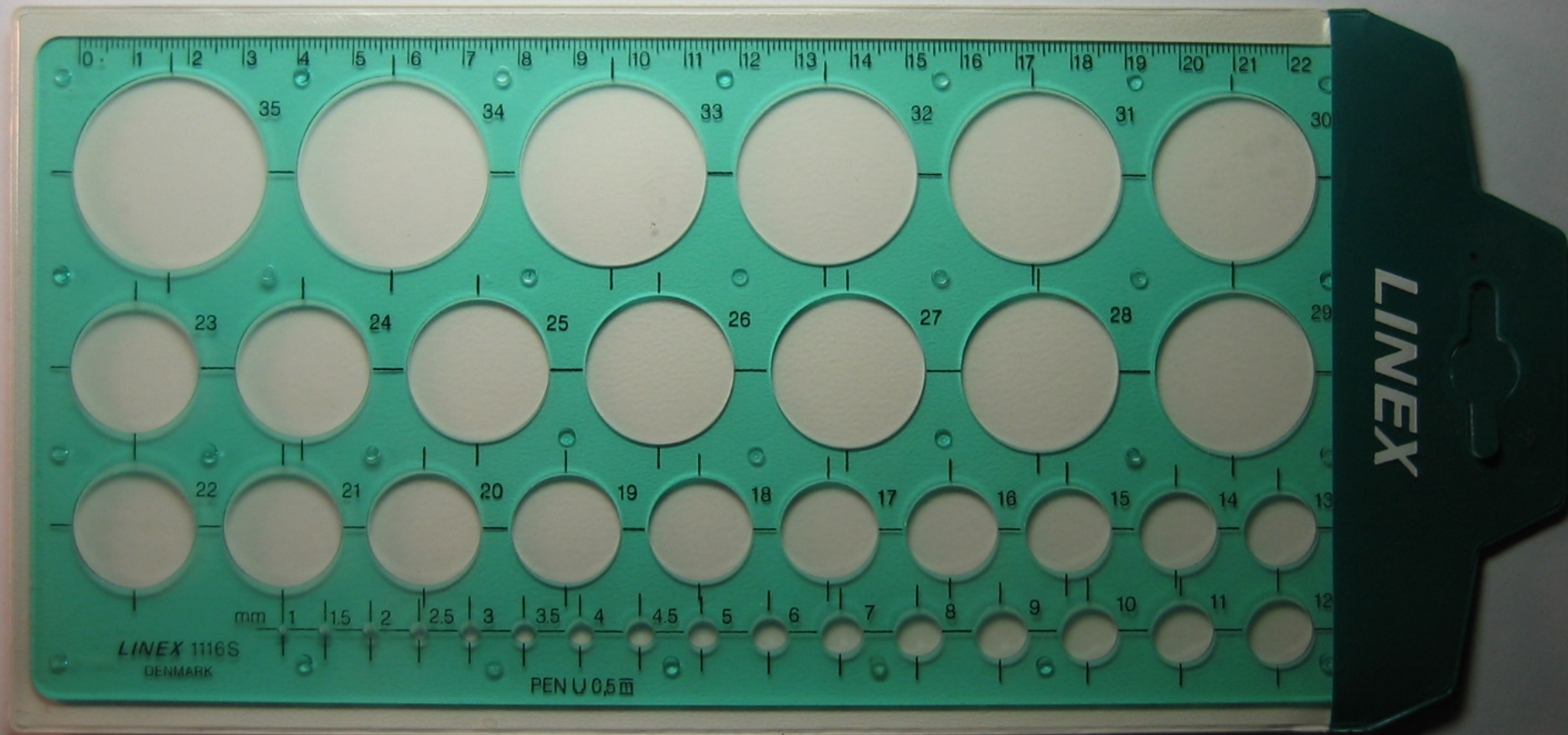
STAND

STANDARDGRAPH



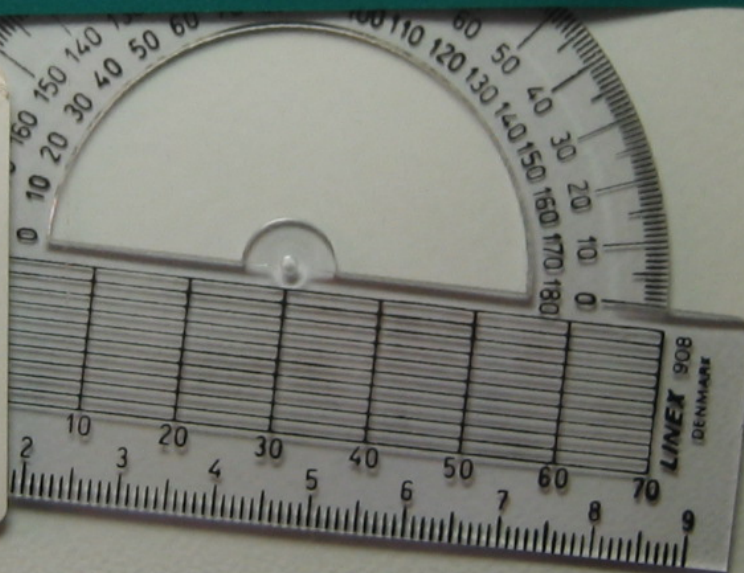
STANDARDGRAPH





LINEX

5
701221 101228
LINEX 908
075800
03-89-95



LINEX 908
DENMARK

10 / 1,0

0,1 / 0,1

7 / 0,7

0,7 / 0,7

5 / 0,5

0,5 / 0,5

3,5 / 0,35

0,25 / 0,25

0,35 / 0,35

0,35 / 0,35

rotring

Art. 401622

U m

rotring

10 / 1,0

0,1 / 0,1

7 / 0,7

0,7 / 0,7

5 / 0,5

0,5 / 0,5

3,5 / 0,35

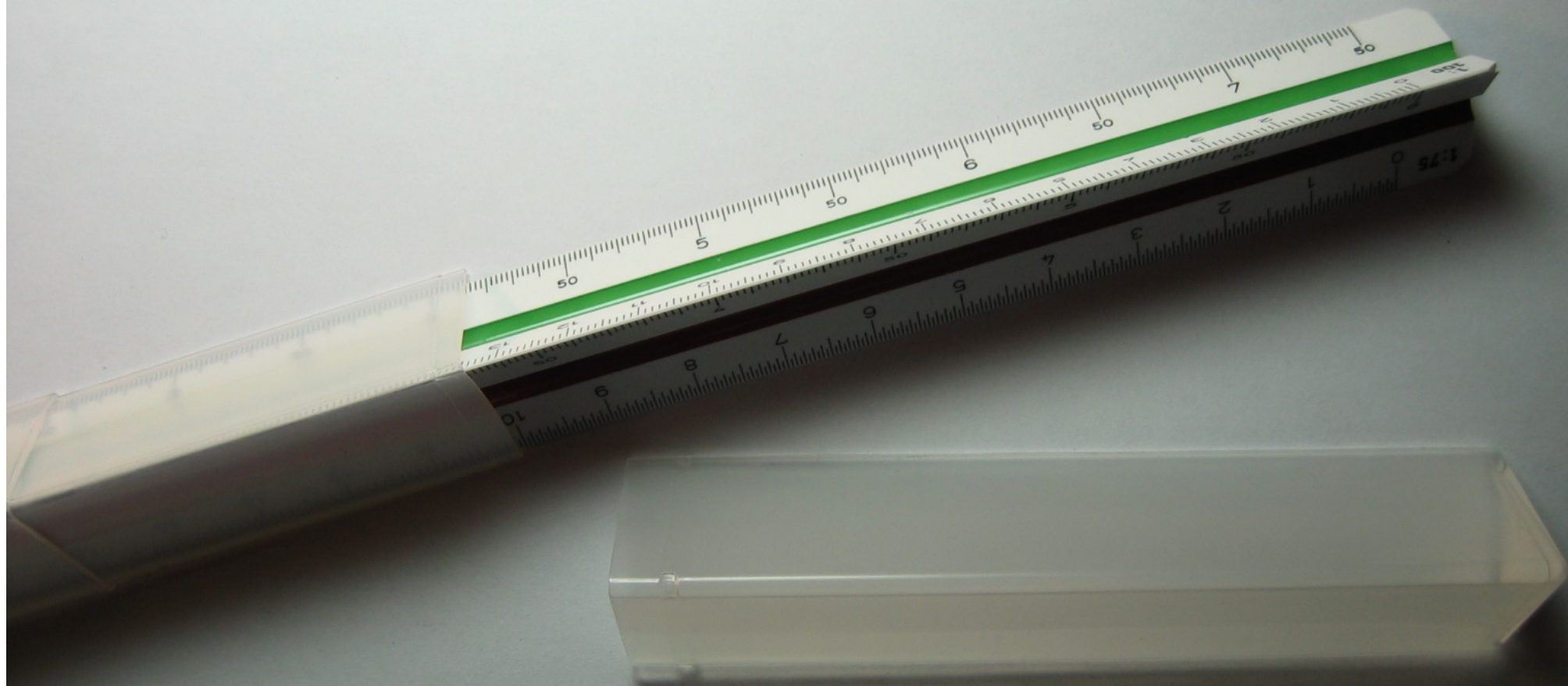
0,25 / 0,25

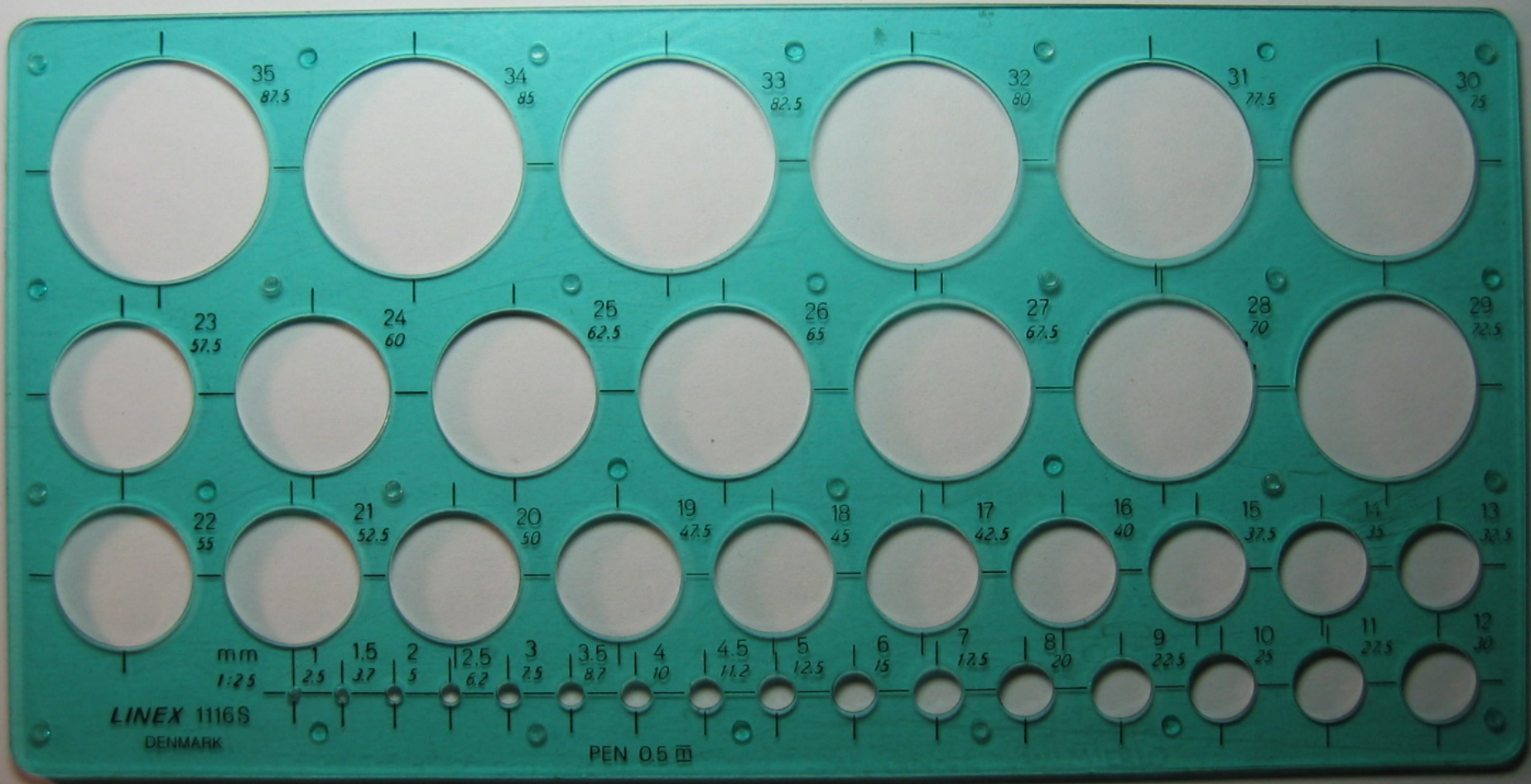
0,35 / 0,35

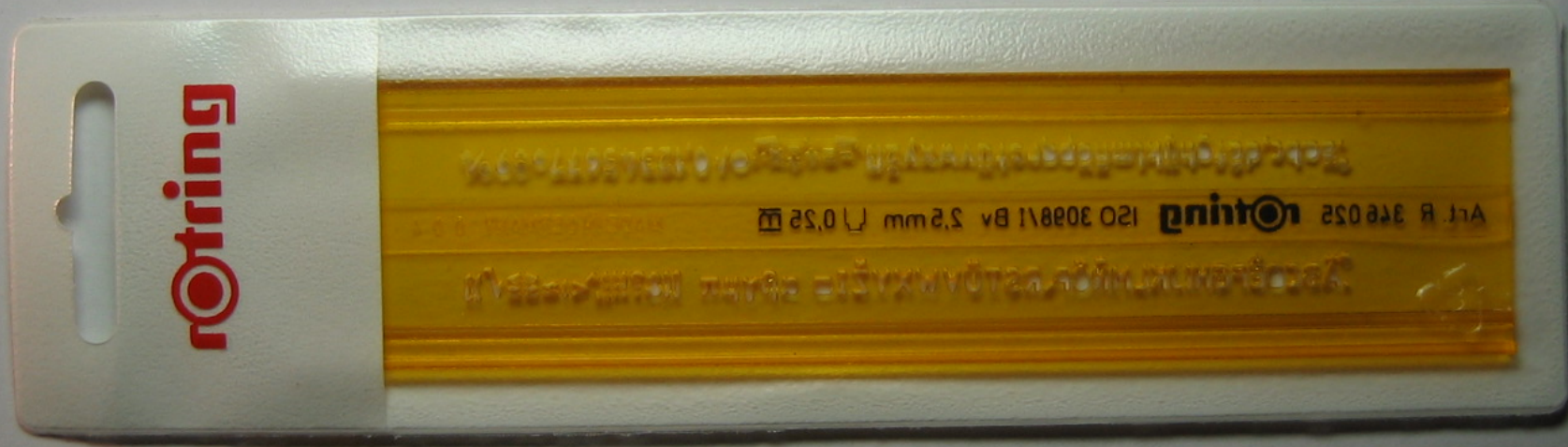
0,35 / 0,35

rotring
Art. 401622

U 10







Rotring

Rotring 349052 Ballpoint Pen Blue Ink 12.0 mm 145 mm

Art. B 349052 Rotring 120 30881 Bx 5,2 mm 145 mm

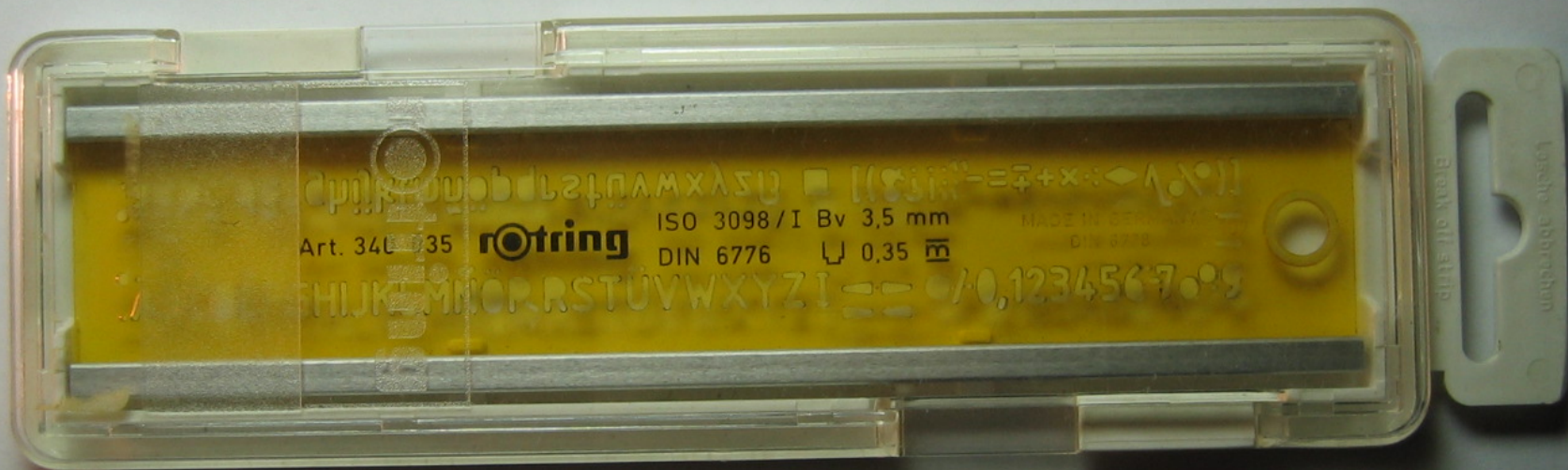
Rotring 349052 Ballpoint Pen Blue Ink 12.0 mm 145 mm

349052



rotring

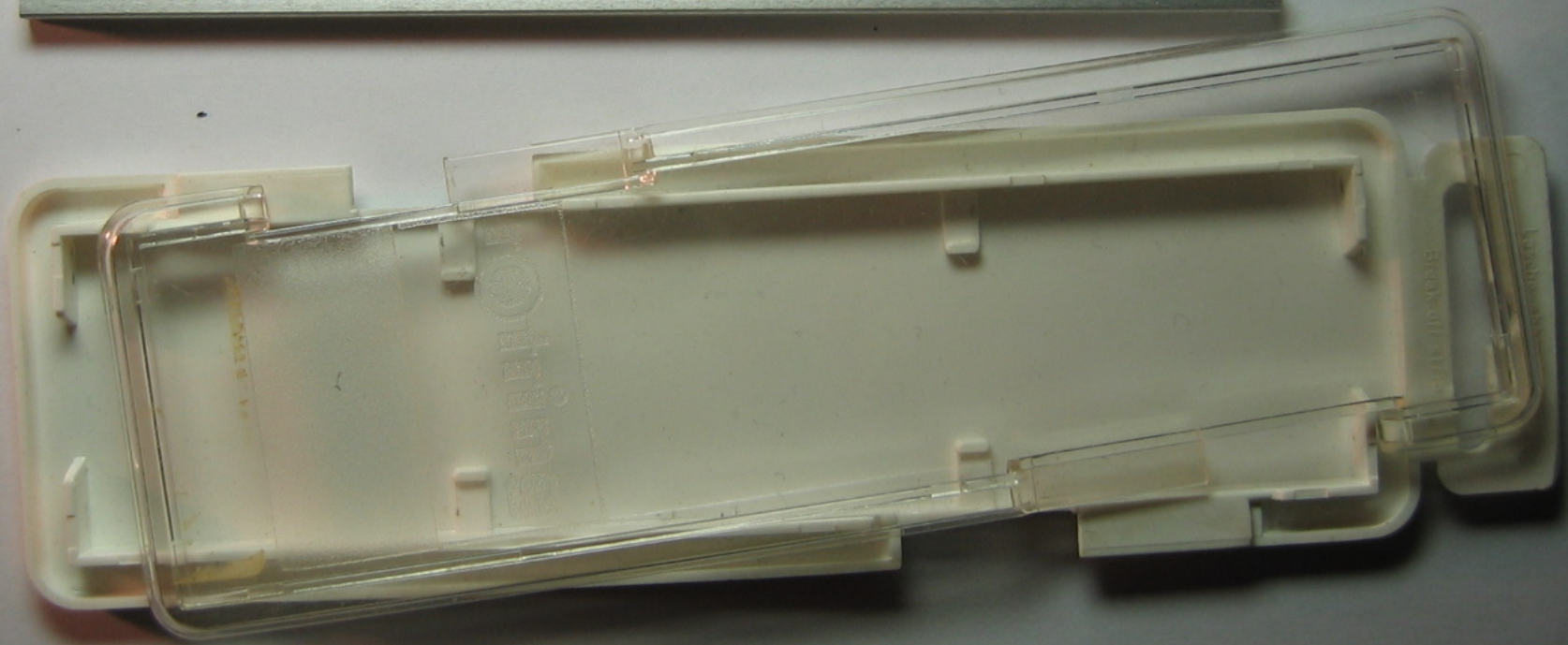
ISO 30081 B1 5.2mm 17.052 m
379032 **rotring**
%68°11954210/012345677089%



Art. 340 235 **rotaring** ISO 3098/I Bv 3,5 mm
DIN 6776 0,35 mm
0,123456789

Break off strip
Lose the abrasion







rotring

R 346 025 **rotring** ISO 3098/I Bv 2,5 mm U 0,25





rotting

ISO

Schriftschablone
Lettering stencil
Trace-lettres
Plantilla para rotular

Zell-profil

ABCDEFGHIJKLMNO P Q
a b c d e f g h i j k l m n o p q r

1234567890

ISO 3098/1 DIN 6776

ISO Bv 2,5 mm

m

40,25 mm

Art. 342 025

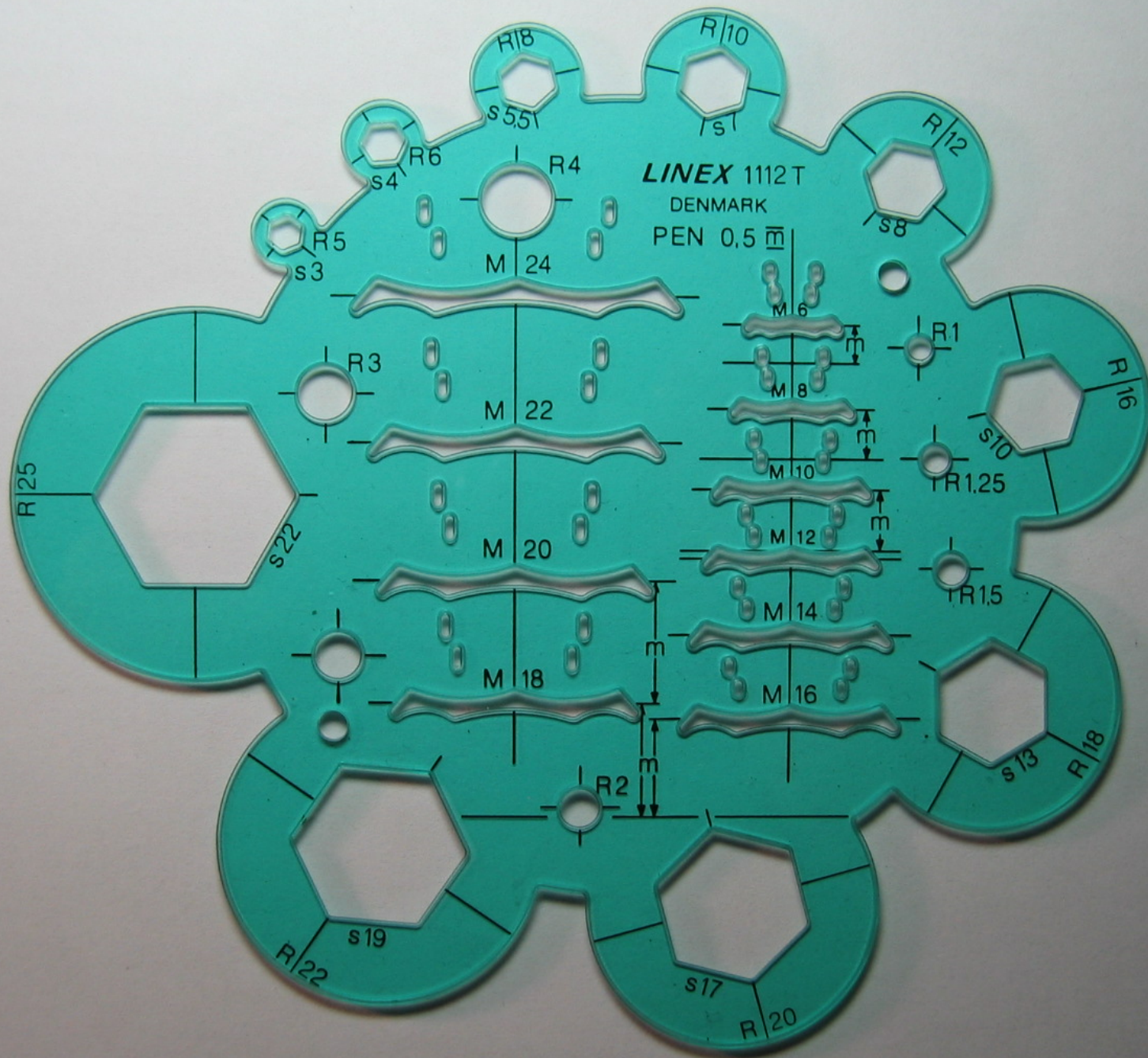
Vertikal

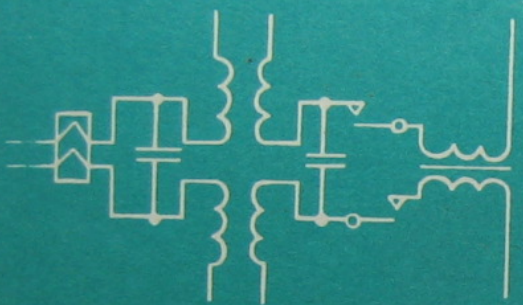


Art 320 125 **rotoring** DIN 17 - 2,5 mm
0,25 m
ABCDEFGHIJKLMNOPQRSTUVWXYZ 1234567890,./

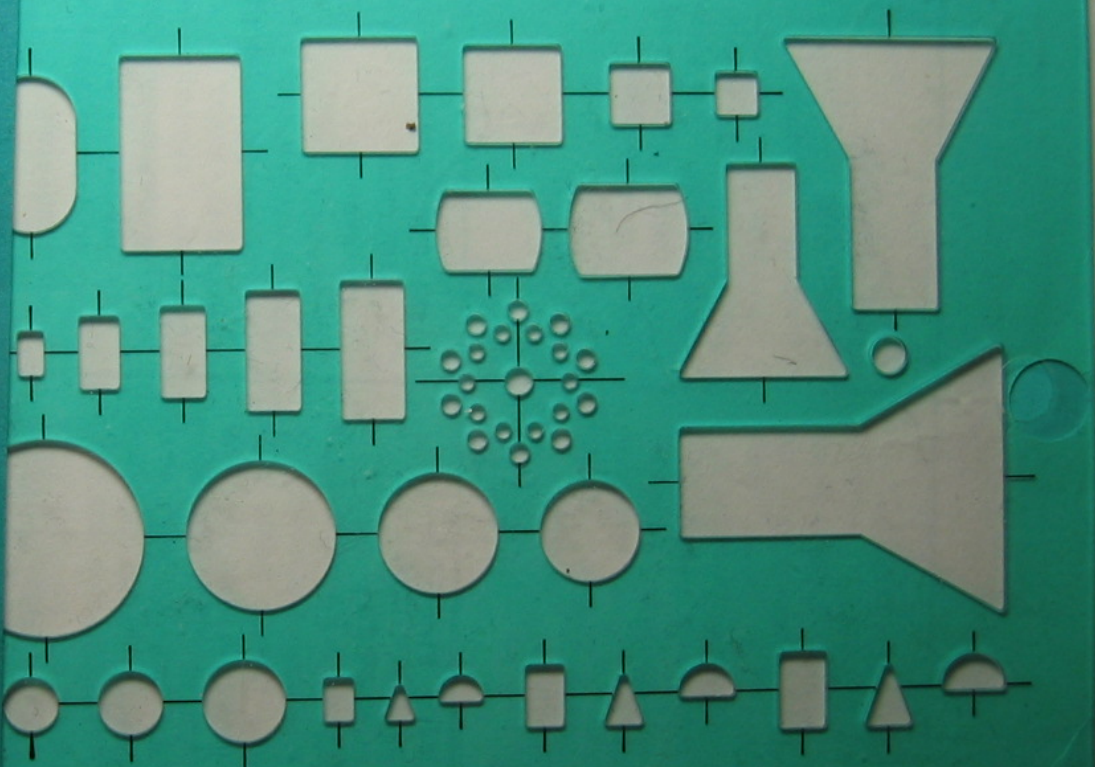
Break off strip
Lutsche abbrechen

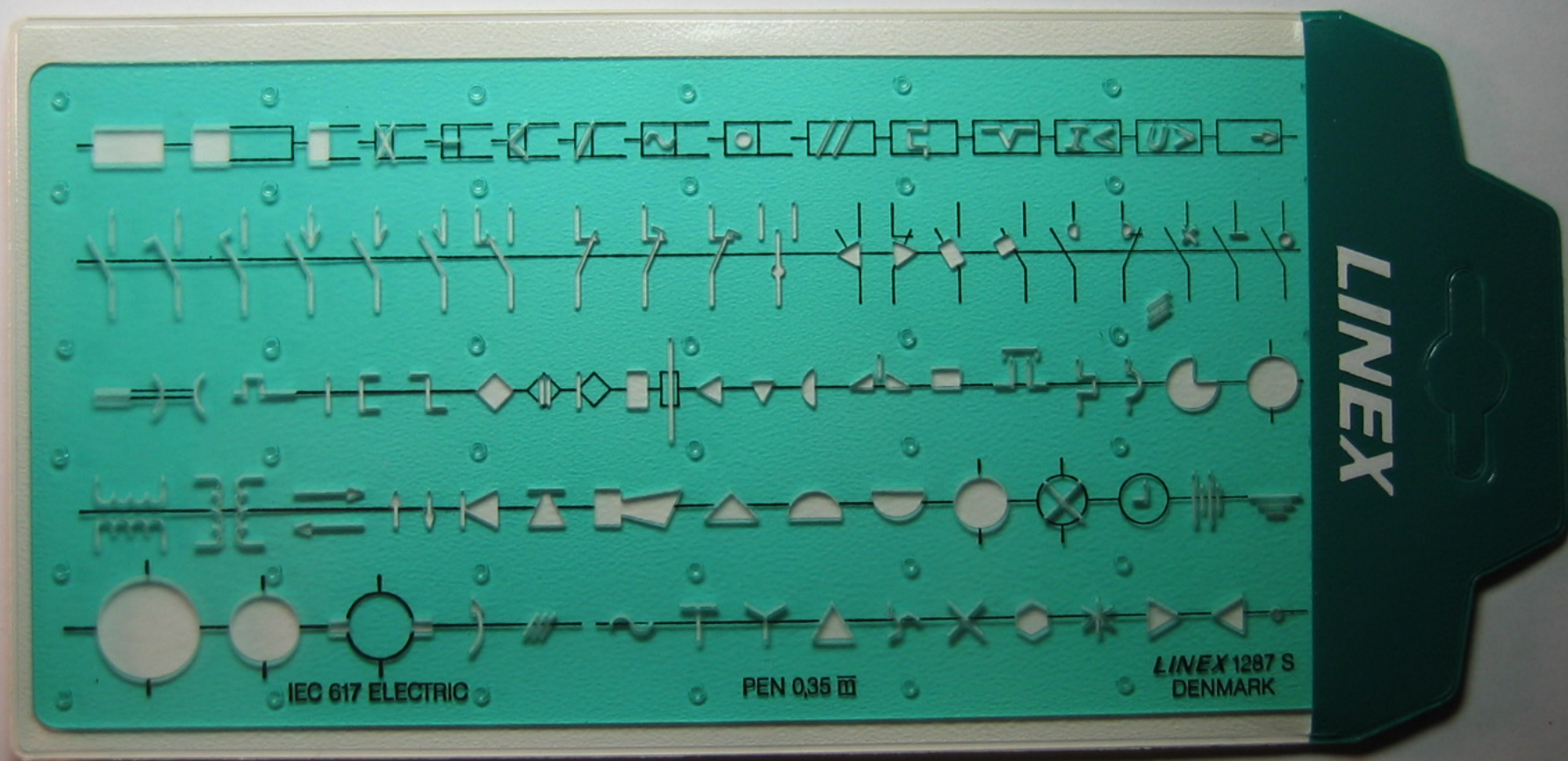






LINEX
1184



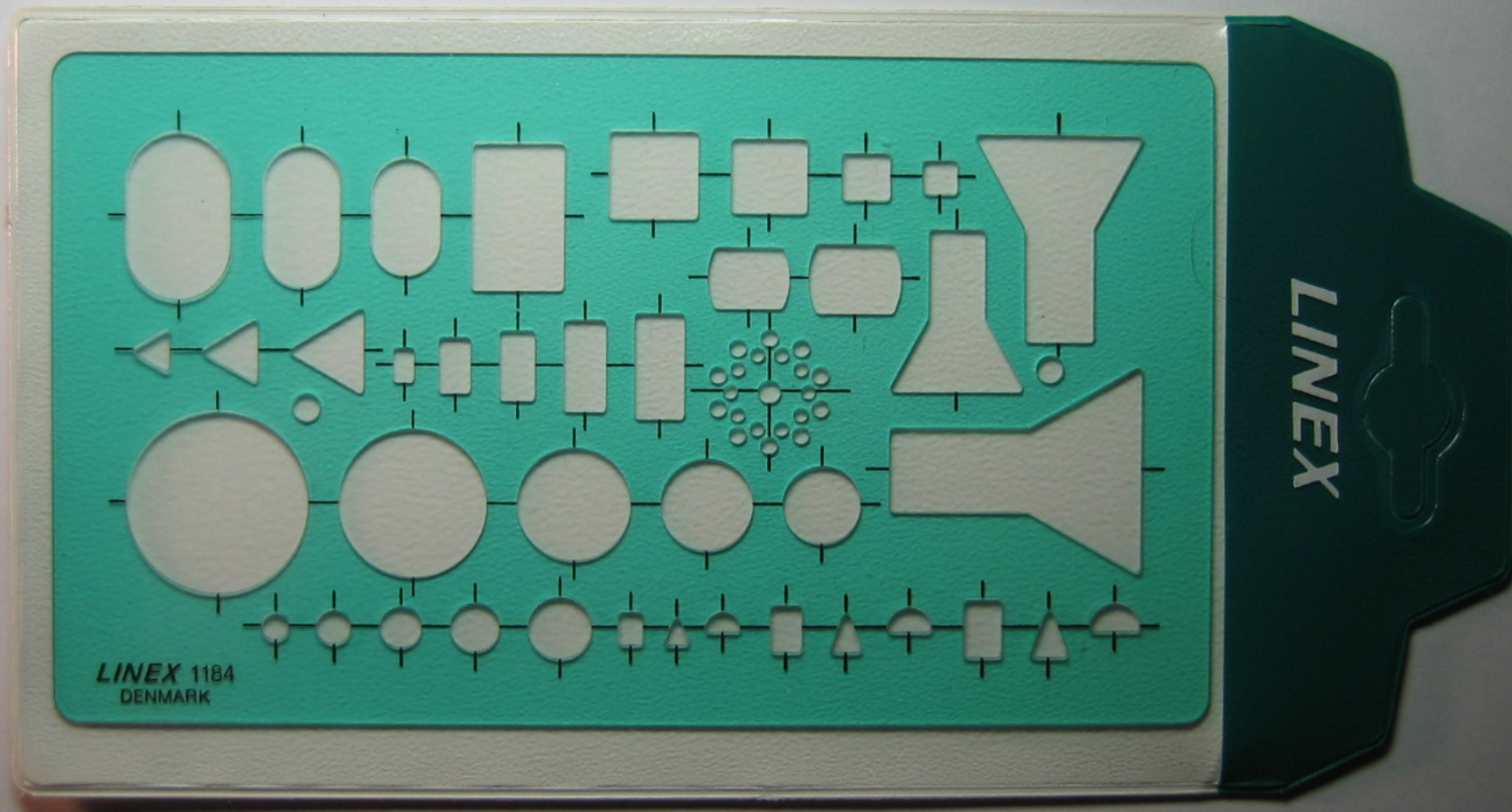


LINEX

IEC 617 ELECTRIC

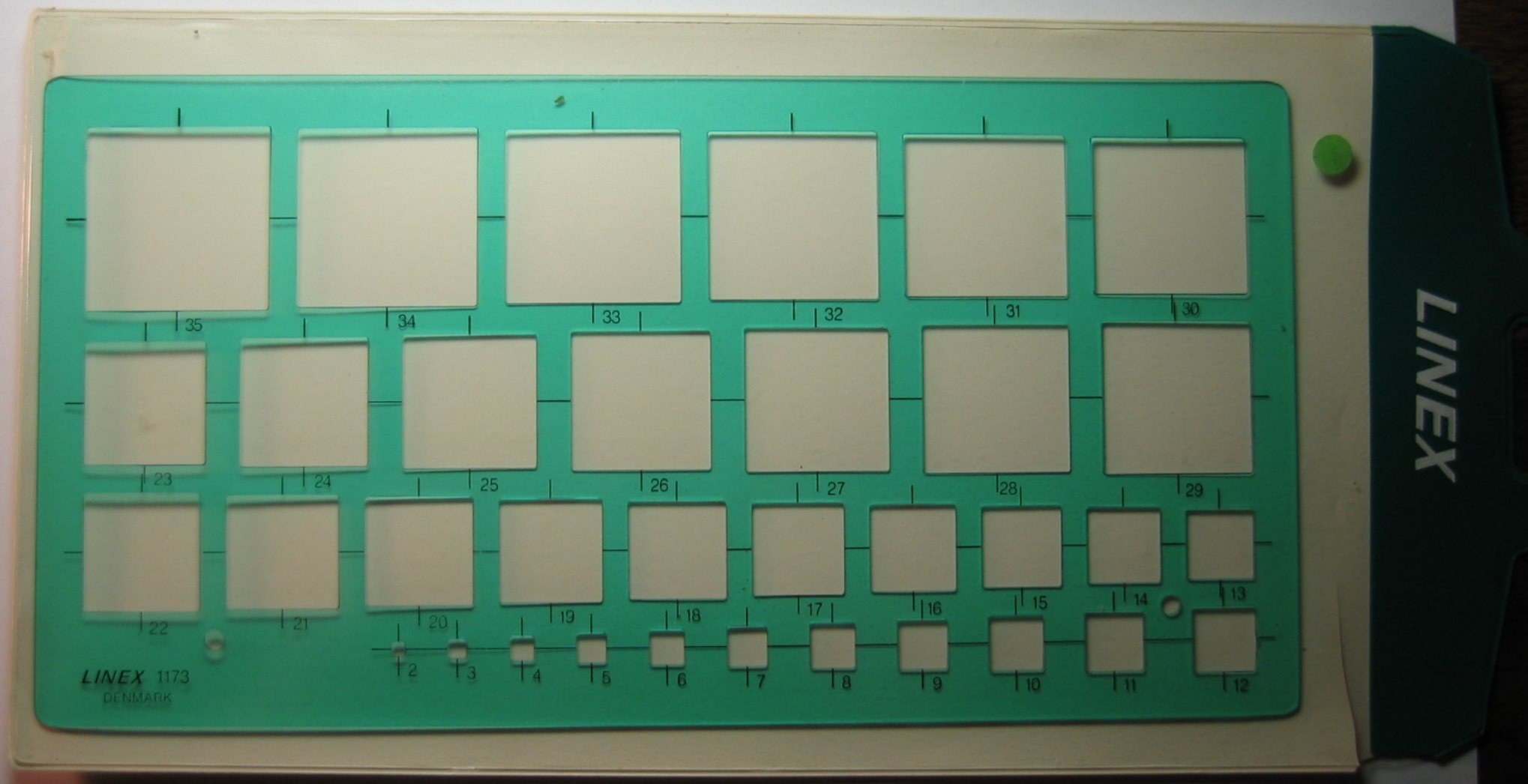
PEN 0,35 mm

LINEX 1287 S
DENMARK



LINEX 1184
DENMARK

LINEX





1161 S

566800



5 701221 107794

LINEX

LINEX 11618
DENMARK

PEN U 0.5mm

75

70

65

60

55

15

18

20

22,5

25

30

35

40

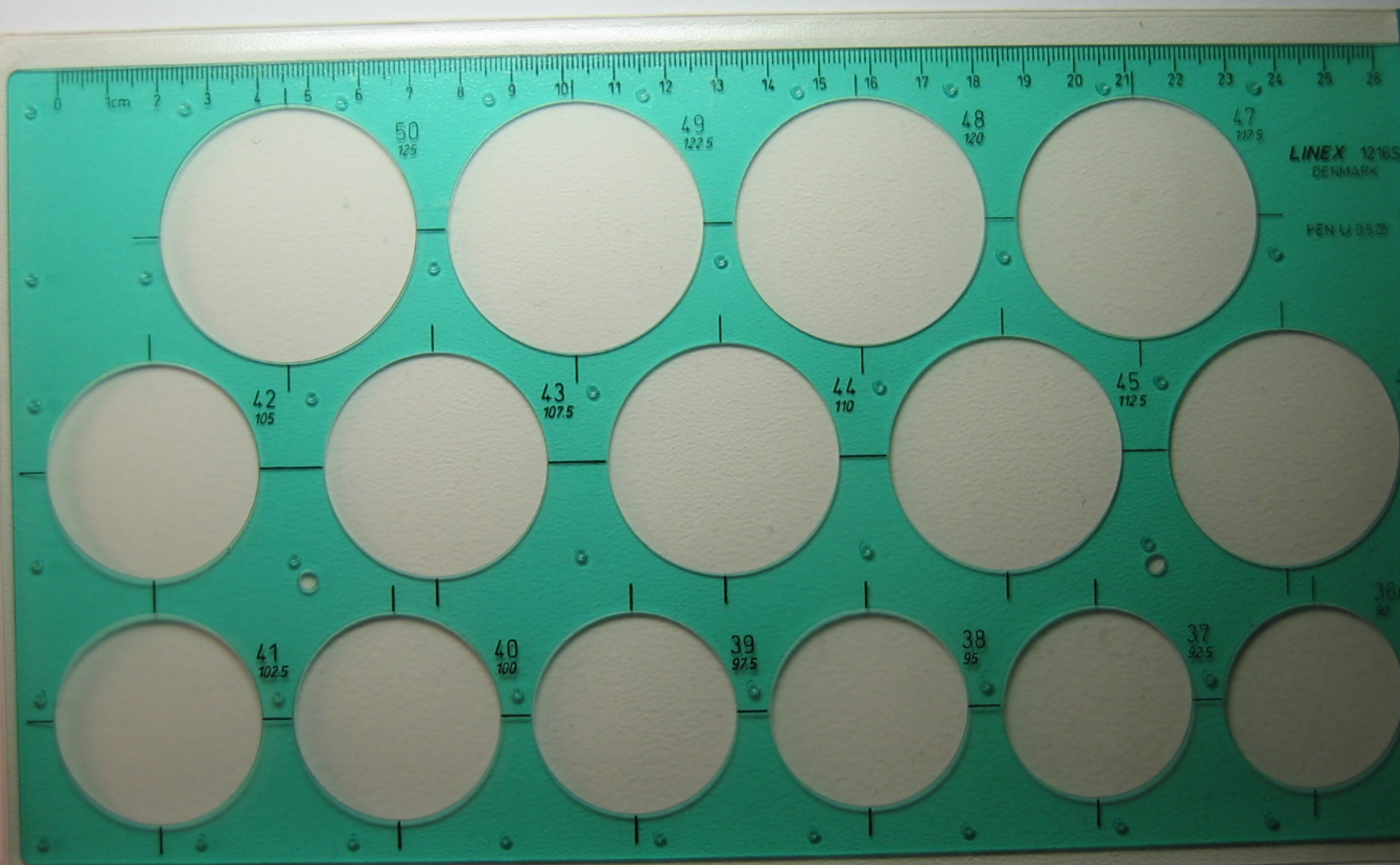
45

50

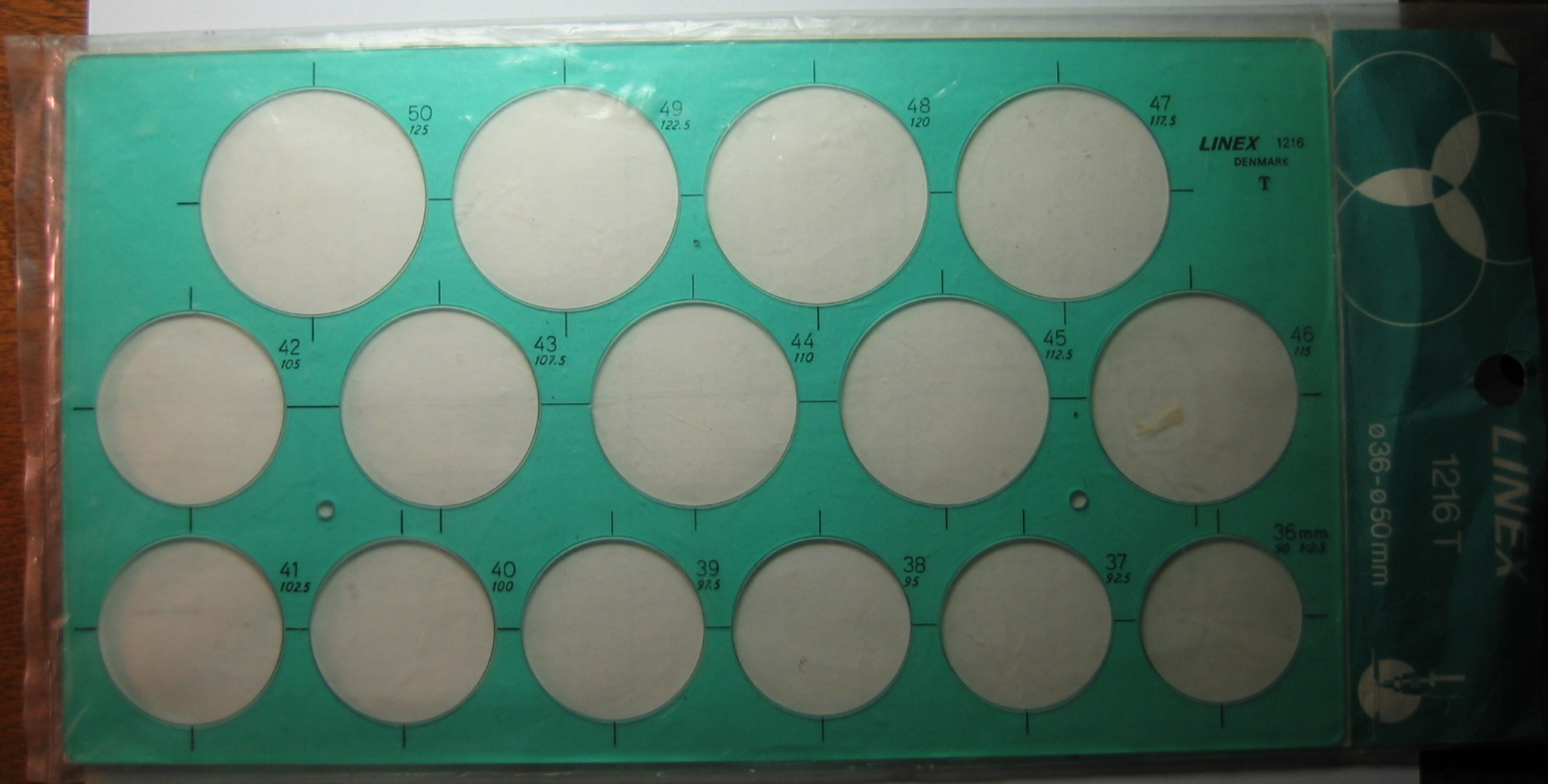
12,5

10

45°



LINEX



LINEX 1216
DENMARK
T

036-050mm

1216 T

LINEX

36mm
30 f2.8

50
125

49
122.5

48
120

47
117.5

42
105

43
107.5

44
110

45
112.5

46
115

41
102.5

40
100

39
97.5

38
95

37
92.5

49
122.5

48
120

47
117.5

LINEX 1216
DENMARK
T

44
110

45
112.5

46
115

36 mm
Ø 36

036-0501

1216 T

LINEX

LINEX



DIMENSIONS REFER TO ISOMETRIC AXIS

COPYRIGHT LINEX 1336 DENMARK

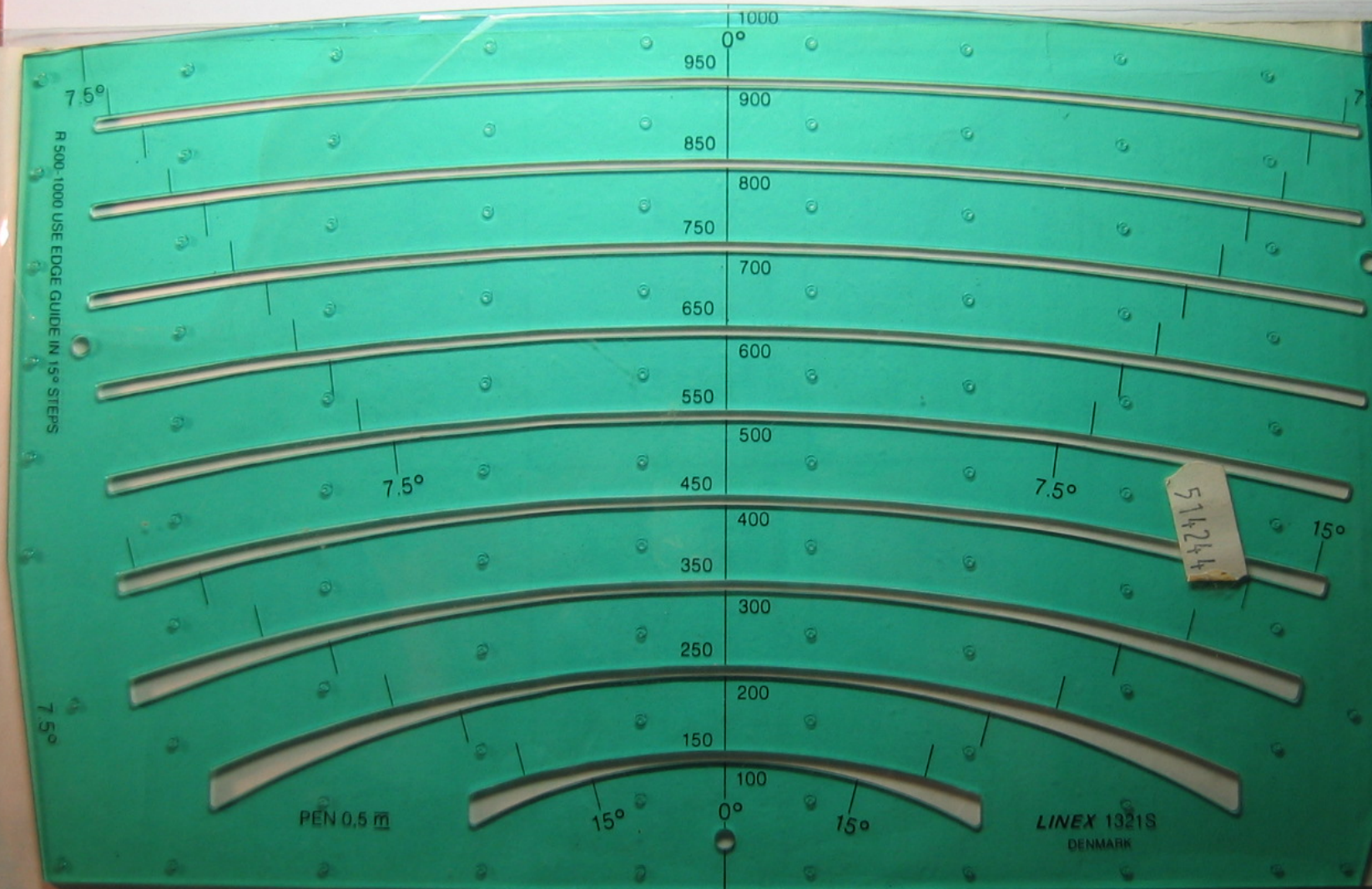
R100-1000

LINEX
1321 S

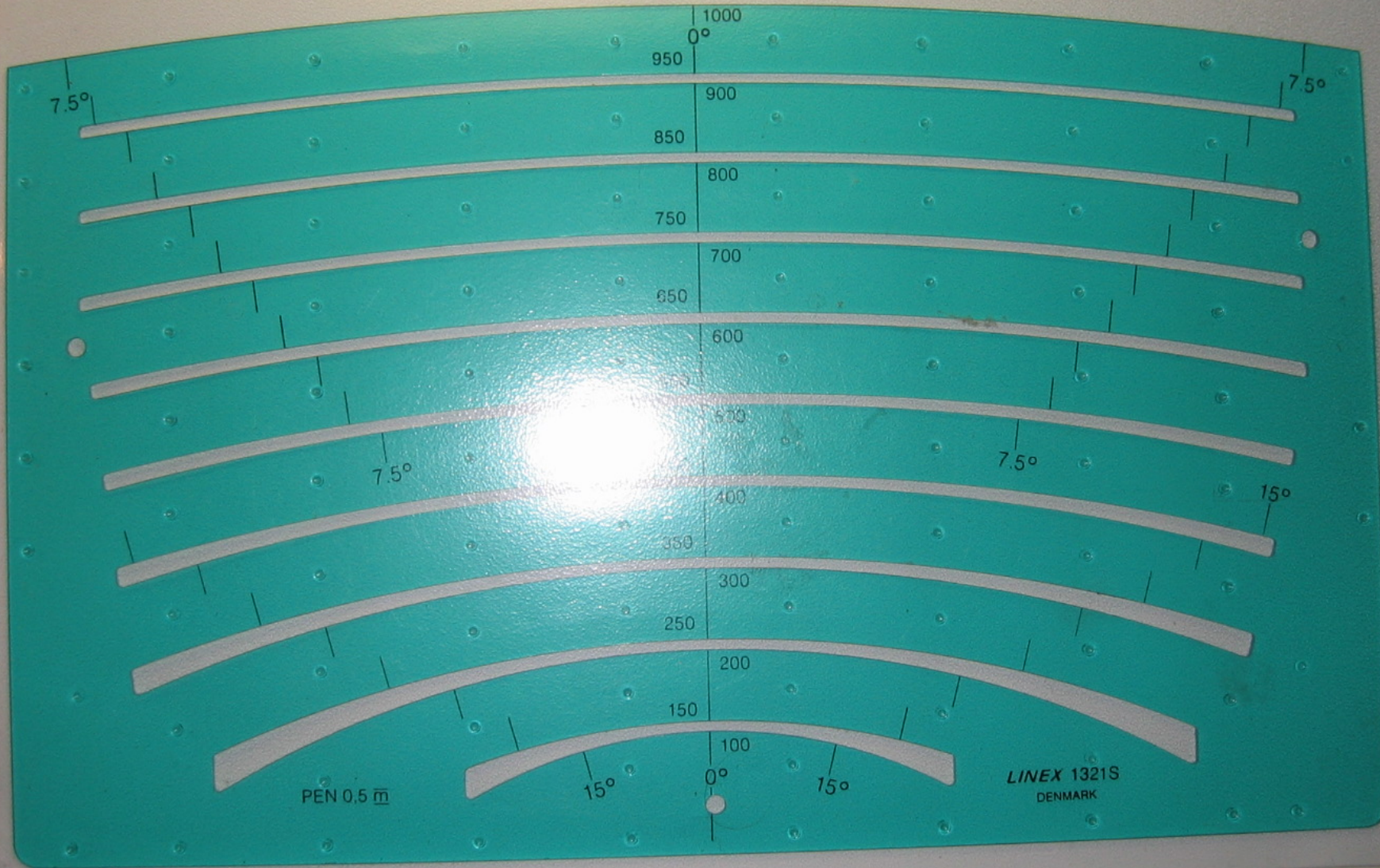
LINEX 1321 S
DENMARK

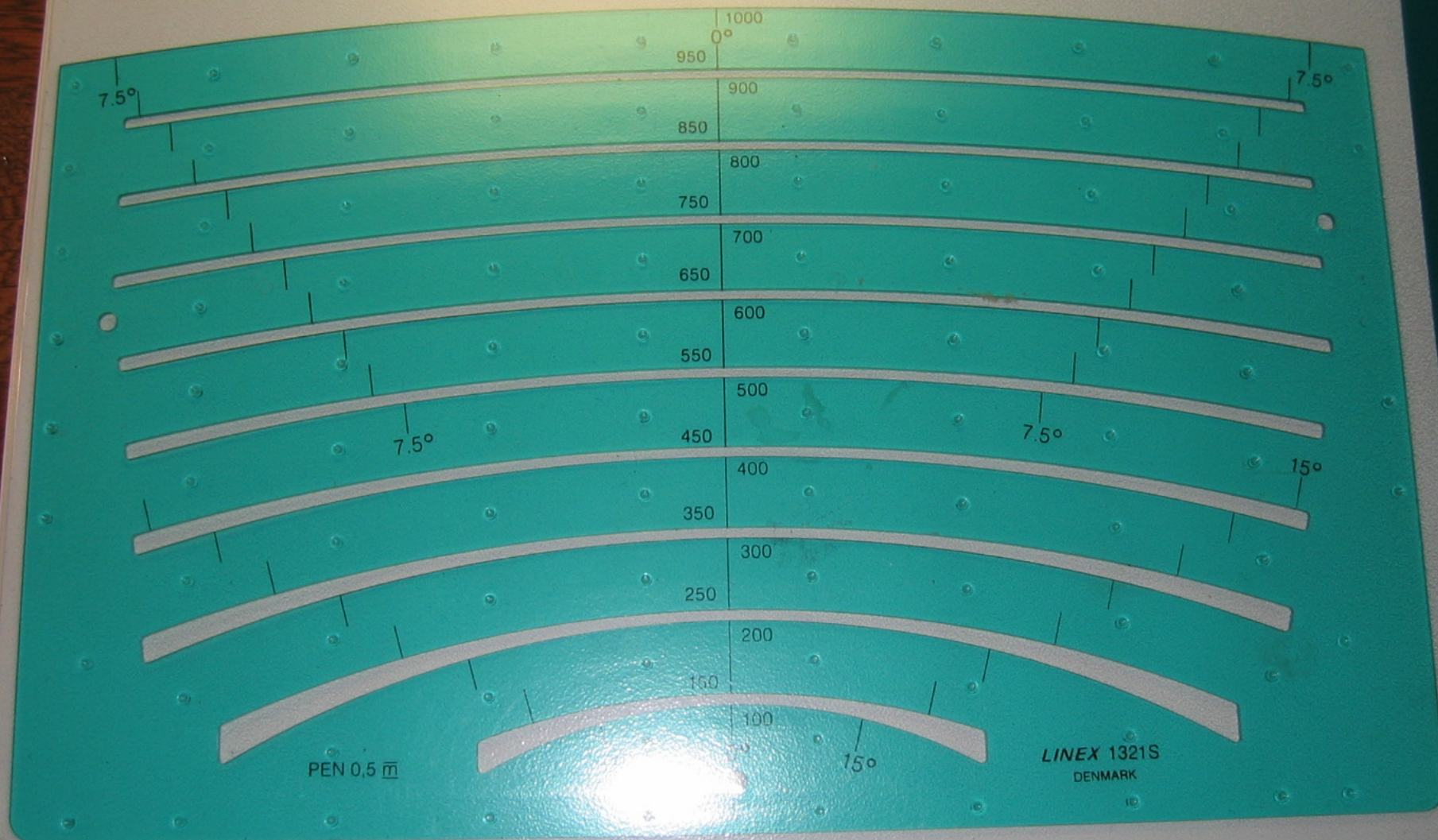
PEN 0,5 mm

R 500-1000 USE EDGE GUIDE IN 15° STEPS

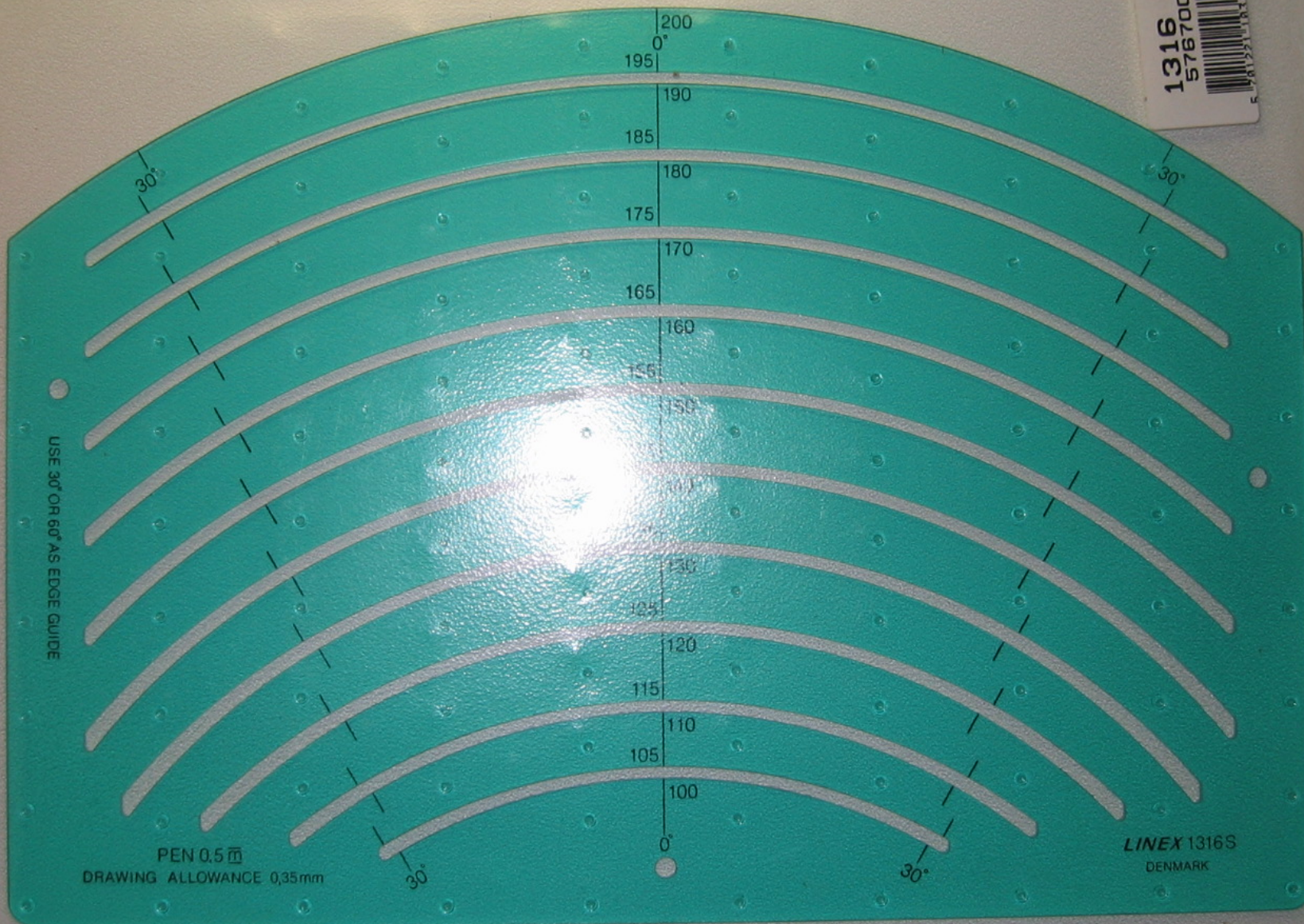


LINEX





LINEX



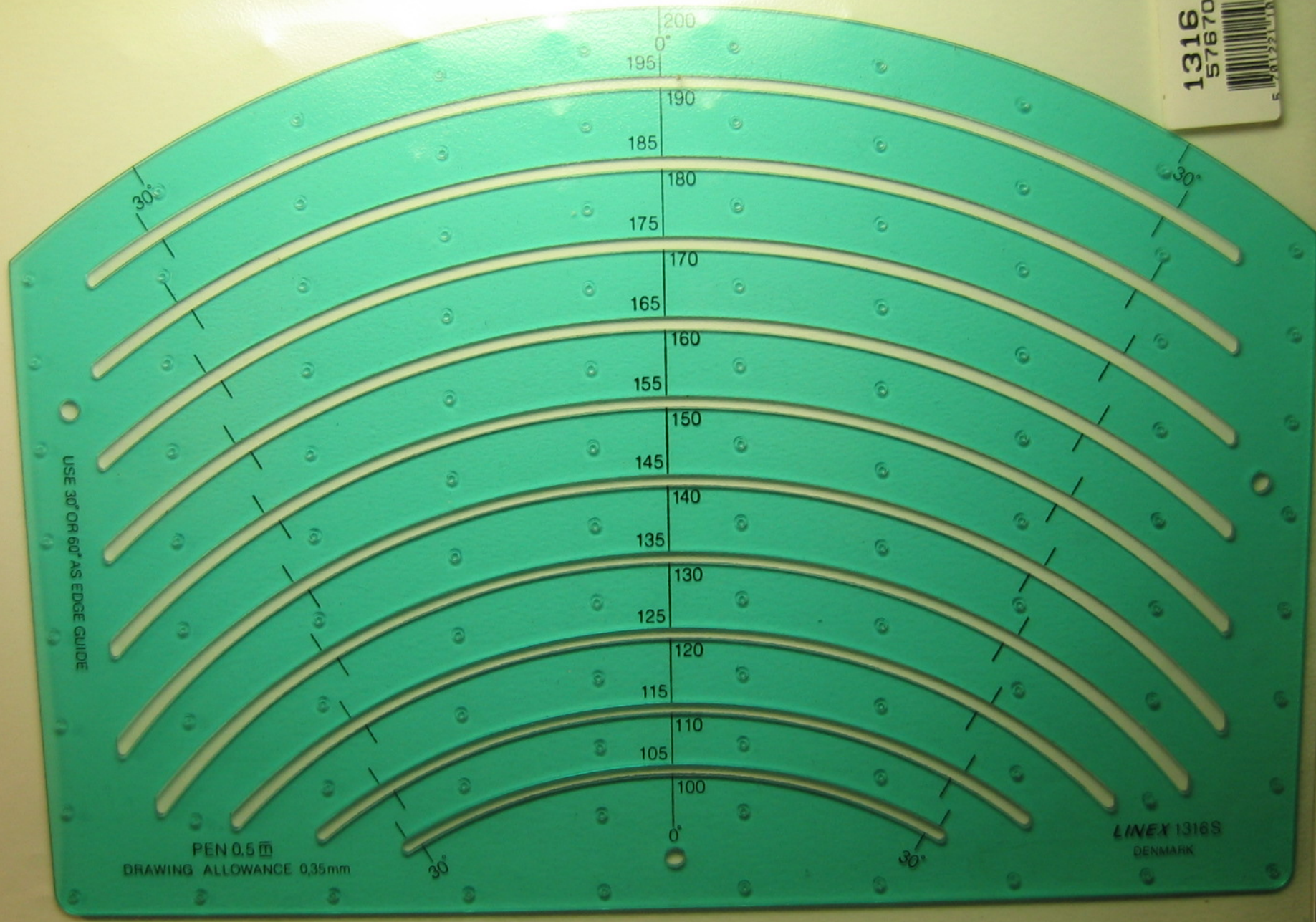
1316 S
576700
5 761221 1316 S

USE 30° OR 60° AS EDGE GUIDE

PEN 0.5
DRAWING ALLOWANCE 0,35mm

LINEX 1316S
DENMARK

1316 S
576700



ALEXANDER

W.A.W.

MIERLO

1117-303



INEX 1118
DENMARK

